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|                                              |           |                                                                              |            |             |            |                        |    |
|----------------------------------------------|-----------|------------------------------------------------------------------------------|------------|-------------|------------|------------------------|----|
| NTDB id 602 KW2 RS03060 WP 011834647.1       | .....MGYL | VPTVIEQSSSRGERAYDIYSRLLKDRIIMLTG                                             | PVEDGMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 75 |
| NTDB id 611 V4T04 RS07970 WP 003129593.1     | .....MGYL | VPTVIEQSSSRGERAYDIYSRLLKDRIIMLTG                                             | PVEDGMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 75 |
| NTDB id 330 STU RS11365 WP 002949732.1       | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PEDNMANS   | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 298 STER RS01925 WP 002949732.1      | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PEDNMANS   | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 282 KZH43 RS03215 WP 000613477.1     | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PVEDNMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 246 SPD RS03495 WP 000613477.1       | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PVEDNMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 244 SPR RS03300 WP 000613477.1       | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PVEDNMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 242 SP RS03655 WP 000613477.1        | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PVEDNMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1 | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PVEDNMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 445 SPYM3 RS01720 WP 002985850.1     | .....     | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PVEDNMANS  | IAQLFLDAQDN | TKDIYLYVNT | PGGSVSAG               | 72 |
| NTDB id 376 SMU RS07595 WP 255262720.1       | MELKEKYS  | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTG                                            | PVEDNMANS  | IAQLFLDAQDN | TKDIYLY    | INSPGGSVSAG            | 80 |
| NTDB id 86 BSU 34540 NP 391334.1             | .....MNL  | IPTVIEQTNRGERAYDIYSRLLKDRIIMLTG                                              | SAIDNVANS  | IVS         | QLLFLA     | AEDEPKETISLYINSPGGSVT  | 74 |
| NTDB id 1223 Cj0192c YP 002343650.1          | .....MF   | IPYVIEKSSSRGRERSYDIYSRLLKDRIIMLTG                                            | SEIHDELAAS | IV          | AQLLFL     | AEEDPTKDIYLYINSPGGVITS | 73 |
| consensus                                    |           | ***!***!!***!!!!*!!!!!!!!!!!!!!!!!!!!*****!*!*!*!***!!!!!!*!*!*!*!***!!***!! |            |             |            |                        |    |

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| NTDB id 602 KW2 RS03060 WP 011834647.1       | LAIVDTMNF                                                                   | IKSDVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | LIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 155      |     |
| NTDB id 611 V4T04 RS07970 WP 003129593.1     | LAIVDTMNF                                                                   | IKSDVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | LIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 155      |     |
| NTDB id 330 STU RS11365 WP 002949732.1       | LAIVDTMNF                                                                   | IKSDVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 152      |     |
| NTDB id 298 STER RS01925 WP 002949732.1      | LAIVDTMNF                                                                   | IKSDVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 152      |     |
| NTDB id 282 KZH43 RS03215 WP 000613477.1     | LAIVDTMNF                                                                   | IKADVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 152      |     |
| NTDB id 246 SPD RS03495 WP 000613477.1       | LAIVDTMNF                                                                   | IKADVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 152      |     |
| NTDB id 244 SPR RS03300 WP 000613477.1       | LAIVDTMNF                                                                   | IKADVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 152      |     |
| NTDB id 242 SP RS03655 WP 000613477.1        | LAIVDTMNF                                                                   | IKADVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRN | LEK       | 152      |     |
| NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1 | LAIVDTMNF                                                                   | IKADVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRH | RLEK      | 152      |     |
| NTDB id 445 SPYM3 RS01720 WP 002985850.1     | LAIVDTMNF                                                                   | IKADVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | MIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRH | RLEK      | 152      |     |
| NTDB id 376 SMU RS07595 WP 255262720.1       | LAIVDTMNF                                                                   | IKSDVQ    | TIVMGMAAS | MGTVIASS | CTKGRF   | MFLPNAEY | LIHQPMGGTGGGT | QQTDM      | IAAEHLLKTRK | LEK       | 160      |     |
| NTDB id 86 BSU 34540 NP 391334.1             | MAIYDTM                                                                     | QFIKPKVST | ICIGMAAS  | MGAFLLAA | GEKGRY   | ALPNSE   | VMIHQPLGGA    | Q..QATE    | IEIAAKRI    | LLLRDKLNK | 152      |     |
| NTDB id 1223 Cj0192c YP 002343650.1          | FSIYDTM                                                                     | NVYIKP    | DVCTIC    | IGQAAS   | MGAFLLSC | GABGKR   | FALPNSR       | IMIHQPLGGA | R..QATD     | IEIQAKEIL | LLKTIIND | 151 |
| consensus                                    | ***!***!!***!!*!!!!!!!!***!!*!!!!!!!!***!!*!*!*!***!!!!!!*!*!*!*!***!!***!! |           |           |          |          |          |               |            |             |           |          |     |

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| NTDB id 602 KW2 RS03060 WP 011834647.1       | ILADNSNRSL          | EQTHKDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HWM   | DAKETLEY | GFIDEIM   | NNSLK     | 199     |     |
| NTDB id 611 V4T04 RS07970 WP 003129593.1     | ILADNSNRSL          | EQTHKDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HWM   | DAKETLEY | GFIDEIM   | NNSLK     | 199     |     |
| NTDB id 330 STU RS11365 WP 002949732.1       | ILADNSGQPI          | EKVHVDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NWMSA | QETLEY   | GFIDEIM   | TNNQLK    | 196     |     |
| NTDB id 298 STER RS01925 WP 002949732.1      | ILADNSGQPI          | EKVHVDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NWMSA | QETLEY   | GFIDEIM   | TNNQLK    | 196     |     |
| NTDB id 282 KZH43 RS03215 WP 000613477.1     | ILAENSGQSM          | EKVHDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NWMSA | QETLEY   | GFIDEIM   | ANNSLN    | 196     |     |
| NTDB id 246 SPD RS03495 WP 000613477.1       | ILAENSGQSM          | EKVHDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NWMSA | QETLEY   | GFIDEIM   | ANNSLN    | 196     |     |
| NTDB id 244 SPR RS03300 WP 000613477.1       | ILAENSGQSM          | EKVHDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NWMSA | QETLEY   | GFIDEIM   | ANNSLN    | 196     |     |
| NTDB id 242 SP RS03655 WP 000613477.1        | ILAENSGQSM          | EKVHDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NWMSA | QETLEY   | GFIDEIM   | ANNSLN    | 196     |     |
| NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1 | ILAQNAGKTI          | KQTHKDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | YWMSA | BETLAY   | GFIDEIM   | NNELK     | 196     |     |
| NTDB id 445 SPYM3 RS01720 WP 002985850.1     | ILAQNAGKTI          | KQTHKDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | YWMSA | BETLAY   | GFIDEIM   | NNELK     | 196     |     |
| NTDB id 376 SMU RS07595 WP 255262720.1       | ILSDNSGKTI          | KQTHKDAERD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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