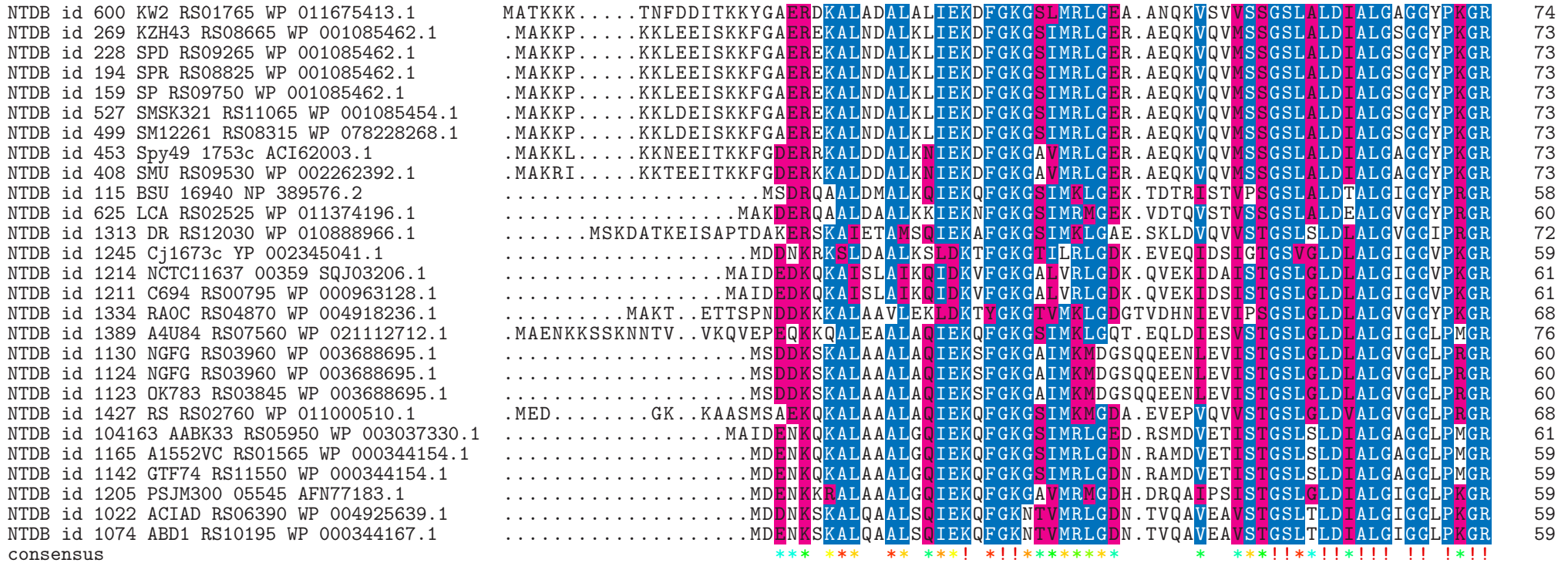


logo



logo



NTDB id 600 KW2 RS01765 WP 011675413.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	154
NTDB id 269 KZH43 RS08665 WP 001085462.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 228 SPD RS09265 WP 001085462.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 194 SPR RS08825 WP 001085462.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 159 SP RS09750 WP 001085462.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 499 SM12261 RS08315 WP 078228268.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 453 Spy49 1753c ACI62003.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 408 SMU RS09530 WP 002262392.1	IVEIYGPSSGKTTVALHAVAQAQKDGGAIAAFDAEHALDPYAAALGVNIDELLV SQPDSGEQGLEIAGKLTDSGAVDL	153
NTDB id 115 BSU 16940 NP 389576.2	IIEVYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	138
NTDB id 625 LCA RS02525 WP 011374196.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	140
NTDB id 1313 DR RS12030 WP 010888966.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	152
NTDB id 1245 Cj1673c YP 002345041.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	139
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	141
NTDB id 1211 C694 RS00795 WP 000963128.1	IIEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	141
NTDB id 1334 RAOC RS04870 WP 004918236.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	148
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	156
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	140
NTDB id 1124 NGFG RS03960 WP 003688695.1	IVEIFGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	140
NTDB id 1123 OK783 RS03845 WP 003688695.1	IVEIFGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	140
NTDB id 1427 RS RS02760 WP 011000510.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	148
NTDB id 104163 AABK33 RS05950 WP 003037330.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	141
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	139
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	139
NTDB id 1205 PSJM300 05545 AFN77183.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	139
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	139
consensus	IVEIYGPSSGKTTVALHAVAQAQKEGGIAAFDAEHALDPYAAALGVNIDELLV SQPDYGEQGLEIAGKLTDSGAVDL	

\*\*\*!\*\*\*!!!!\*!!!!\* \* ! \*\*! \*! \*\* \*!\*\*\*!!!!\*!\* \* !! !!\*\*\*\*\*!!\*\*!\*!!!!\*!!!!\*!\*! \* \*\*!\*\*\*\*!\*\*\*!\*

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	VV	I	D	S	V	A	A	L	V	P	K	A	E	I	D	G	E	I	G	D	S	S	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	A	G	H	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	233		
NTDB id 269 KZH43 RS08665 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 228 SPD RS09265 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 194 SPR RS08825 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 159 SP RS09750 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 499 SM12261 RS08315 WP 078228268.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 453 Spy49 1753c ACI62003.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 408 SMU RS09530 WP 002262392.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	232		
NTDB id 115 BSU 16940 NP 389576.2	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	217
NTDB id 625 LCA RS02525 WP 011374196.1	L	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	S	219	
NTDB id 1313 DR RS12030 WP 010888966.1	V	V	V	D	S	V	A	A	L	T	P	R	A	E	I	E	G	D	M	G	D	S	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	I	L	S	K	T	G	T	A	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	Y	C	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	231
NTDB id 1245 Cj1673c YP 002345041.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	I	V	H	K	M	N	T	T	V	I	F	I	N	Q	L	R	M	K	I	G	A	M	G	Y	C	T	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	219
NTDB id 1214 NCTC11637 00359 SQJ03206.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	L	I	F	I	N	Q	L	R	M	K	I	G	M	G	Y	C	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	221		
NTDB id 1211 C694 RS00795 WP 000963128.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	K	M	G	L	H	A	R	L	M	S	Q	A	L	R	K	L	T	S	S	I	S	K	T	K	C	T	V	I	F	I	N	Q	L	R	D	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	227
NTDB id 1334 RAOC RS04870 WP 004918236.1	I	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	N	I	K	N	T	N	C	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	S	219
NTDB id 1124 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	S	219
NTDB id 1123 OK783 RS03845 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	S	219
NTDB id 1427 RS RS02760 WP 011000510.1	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	T	I	K	R	T	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	227
NTDB id 104163 AABK33 RS05950 WP 003037330.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	I	G	D	S	H	M	G	L	A	A	R	M	S	Q	A	M	R	K	L	A	G	N	L	K	Q	S	N	T	L	L	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	220	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	218
NTDB id 1142 GTF74 RS11550 WP 000344154.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	218





logo

LEIELEE

NTDB id 600 KW2 RS01765 WP 011675413.1	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 104163 AABK33 RS05950 WP 003037330.1	.....	354
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349

consensus

⊠ non conserved  
⊠ similar  
⊠ ≥ 50% conserved