

logo

T10136 WP 015060653.1 NC 019265:c23853-23533
 T6290 WP 000615983.1 NZ CP009273:c242726-242448
 T1038 NP 414760.1 NC 000913:c246239-245961
 T10190 WP 176704754.1 NZ KY498026:c2572-2228
 T6289 WP 003831807.1 NC 014169:c1181695-1181402
 T6257 WP 003831807.1 NC 011593:1564802-1565095
 T10070 WP 014123908.1 NC 016052:523750-524034
 T166 WP 000277238.1 NC 002506:c328287-328018
 T6286 WP 014517465.1 NC 017284:30649-30924
 T10088 WP 000921941.1 NC 011498:475560-475841
 T28 WP 000916169.1 NC 000915:c946611-946345
 T6127 WP 000955518.1 NC 000915:c945963-945691
 T10111 QIP66200.1 MK544944:263-565
 T10112 QIP66198.1 MK544943:263-565
 T10108 QIP66206.1 MK544947:301-486
 T10109 QIP66204.1 MK544946:257-544
 T10110 QIP66208.1 MK544948:301-486
 T6239 WP 005691636.1 NC 017491:c513270-513085
 T6144 WP 005691636.1 NC 017491:c513270-513085
 T6139 WP 005691636.1 NC 013199:c513094-512909
 T665 WP 002262889.1 NC 004350:850213-850491
 T10095 WP 002596328.1 NC 013316:c2055913-2055623
 T6256 WP 012576472.1 NC 011593:c15445-15155



..MAKKPARPANLKRAPLPKRTAYTPEF**KK**SW**KRH**NDAGRQPMTEARDV**MR**MLWEG..DT...LPAQY**L**D**HE**LQ..GEWA 71
MIQRD**IE**YS**GQ**YS**KD**V..K**LA**QKRHK**DM**N**K**L**K**Y**L**M**T**L**L**IN**T**.LP...LPAVY**K**D**H**PLQ..GSWK 57
MIQRD**IE**YS**GQ**YS**KD**V..K**LA**QKRHK**DM**N**K**L**K**Y**L**M**T**L**L**IN**T**.LP...LPAVY**K**D**H**PLQ..GSWK 57
 MSCSTNLK**KTA**ASKRASLPRAAD**Y**T**K**S**F**IK**D**WERL**S**R**S**G**R**Y**D**M**N**R**L**KEAM**L**L**L**I**A**ND.AP...LGAEW**L**D**H**PL**K**..GDWA 74
MLK**P**D**Y**T**A**A**F**Q**R**D**I**K**K**L**K**R**K**H**T**.D**L**R**P**L**K**E**V**I**R**L**V**L**E**D**T**A**D**S**K**E**V**L**R**R**R**H**R**A**H**T**L**T..G**D**L**N** 59
MLK**P**D**Y**T**A**A**F**Q**R**D**I**K**K**L**K**R**K**H**T**.D**L**R**P**L**K**E**V**I**R**L**V**L**E**D**T**A**D**S**K**E**V**L**R**R**R**H**R**A**H**T**L**T..G**D**L**N** 59
M**K**N**N**P**K**Y**K**P**A**F**E**R**F**K**K**H**Y**K**N**M**L**K**G**G**R**Y**K**K**E**D**F**E**K**V**Y**W**K**L**Y**D**E**..Q...L**E**P**R**Y**N**D**H**PL**V**..N**R**K 59
M**K**L**E**Y**S**T**Q**F**K**K**D**F**K**I**T**K**M**P**I**S**D**I**E**V**G**N**V**I**S**K**L**Q**R**G**E**..K...L**E**P**K**N**V**D**H**PL**T**..G**N**W**V** 55
M**Q**N**K**Y**S**V**T**F**S**K**R**F**K**K**D**F**K**I**N**N**N**..D**K**K**L**K**K**I**V**N**K**L**A**N**D**E..V...L**E**E**K**Y**K**D**H**AL**K**..G**N**Y**I** 55
M**L**K**V**R**T**K**D**F**L**K**D**F**N**K**H**I**L**S**G**R**I**T**E**S**D**V**T**S**V**D**D**C**L**K**E**Q**K**..P...L**Q**Q**K**Y**C**D**H**A**L**S...G**N**L**K** 55
V**L**K**L**N**L**K**S**F**Q**K**D**F**D**K**L**L**L**N**G**F..D**D**S**V**L**N**E**V**I**L**T**L**R**K**K**E**..P...L**D**P**Q**F**Q**D**H**A**L**K...G**K**W**K** 54
M**L**T**I**E**T**S**K**K**F**D**K**D**L**K**I**L**V**K**N**G**F**.D**L**K**L**L**Y**K**V**V**G**N**L**A**E**Q..P...L**A**P**K**Y**K**D**H**PL**K**..G**G**L**K** 54
M**Y**S**L**V**P**T**P**T**F**K**R**D**L**K**R**L**S**K**K**H**W**.P**M**D**E**L**K**T**A**V**N**L**L**A**A**G**T**..N**A**E**L**L**S**K**K**Y**A**D**H**A**L**S**S**S**S**E**W**K 59
M**Y**S**L**V**P**T**P**T**F**K**R**D**L**K**R**L**S**K**K**H**W**.P**M**D**E**L**K**T**A**V**N**L**L**A**A**G**T**..N**A**E**L**L**S**K**K**Y**A**D**H**A**L**S**S**S**S**E**W**K 59
M**Q**R**Q**A..H..V**K**L**A**S**L**H**D**H**A**L**K**..G**A**H**S** 22
M**M**L**T**I**N**R**T**R**T**F**K**R**Q**F**K**H**L**R**Q**G**K**.D**M**T**K**L**A**T**A**I**D**T**L**Q**R**Q**D**..R..V**K**L**A**S**L**H**D**H**A**L**K**..G**A**H**S** 56
M**Q**R**Q**G..H..V**K**L**A**S**L**H**D**H**A**L**K**..G**A**H**S** 22
M**Q**R**Q**G..H..V**K**L**A**S**L**H**D**H**A**L**K**..G**A**H**S** 22
M**Q**R**Q**G..H..V**K**L**A**S**L**H**D**H**A**L**K**..G**A**H**S** 22
M**Q**R**Q**G..H..V**K**L**A**S**L**H**D**H**A**L**K**..G**A**H**S** 22
M**L**K**I**K**Q**T**R**Q**F**K**K**S**L**K**V**V**K**Q**G**K.D**I**N**K**L**F**A**I**V**E**L**L**C**Q**K**S**..E...L**P**L**A**L**R**N**H**E**L**K..G**R**W**R** 54
M**K**E**T**K**Y**T**V**K**Y**T**T**S**F**K**K**D**Y**K**R**A**I**K**R**G**L**.K**I**E**L**L**E**Q**V**V**A**L**L**A**M**G**E**..P...L**P**D**K**N**R**D**H**D**L**S..G**D**W**A** 58
M**S**G**I**R**Y**T**V**K**T**S**R**F**R**K**D**F**K**L**A**R**R**R**G**L.D**A**G**L**F**K**Q**V**S**I**L**S**E**G**G..T...L**P**D**R**Y**H**D**H**A**L**T..G**N**M**T** 58

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 T665 WP 002262889.1 NC 004350:850213-850491
 T10095 WP 002596328.1 NC 013316:c2055913-2055623
 T6256 WP 012576472.1 NC 011593:c15445-15155



G**N**R**E**C**H**I**R**...G**D**F**L**L**V**Y**Q**V**T**K...T**D**V**I**F**V**D**I**G**T**H**A**E**L**F**K**.. 106
 G**Y**R**D**A**H**V**E**...P**D**W**L**I**Y**K**L**T**D**...K**L**L**R**F**E**R**T**G**T**H**A**A**L**F**G**.. 92
 G**Y**R**D**A**H**V**E**...P**D**W**L**I**Y**K**L**T**D**...K**L**L**R**F**E**R**T**G**T**H**A**A**L**F**G**.. 92
 G**H**R**E**C**H**V**G**...G**D**F**L**L**A**Y**K**T**D**D**S**G**K**T**G**L**I**F**V**R**T**G**T**H**A**E**L**F**N**E.. 114
 G**V**L**E**C**H**I**G**.N**A**G**D**W**L**L**L**W**I**R**D**D**G**...T**A**M**F**M**R**T**G**S**H**D**E**L**L**G**K**.. 97
 G**V**L**E**C**H**I**G**.N**A**G**D**W**L**L**L**W**I**R**D**D**G**...T**A**M**F**M**R**T**G**S**H**D**E**L**L**G**K**.. 97
 P**E**R**D**L**H**I**K**...P**D**W**L**L**I**Y**K**Y**D**G**E**...F**V**R**F**I**D**T**G**T**H**A**D**L**F**K.. 94
 G**F**R**D**C**H**I**K**...P**D**L**V**L**I**Y**R**V**F**N**D**...Q**L**Q**L**A**R**I**G**S**H**S**D**L**F**... 89
 G**F**R**E**C**H**I**K**...P**D**L**L**L**V**Y**R**K**N**N**D**I..L**E**L**Y**L**A**N**L**G**M**H**N**N**I**F... 91
 G**L**R**E**C**H**V**K**...P**N**L**L**L**I**Y**E**I**K**K**Q**E..N**E**L**V**L**R**L**D**T**H**S**E**L**F**K**K**.. 93
 P**F**R**E**C**H**I**K**...P**D**V**L**L**V**Y**L**V**K**D**D**...E**L**I**L**L**R**L**G**S**H**S**E**L**F**... 88
 D**F**R**E**C**H**L**K**...P**D**L**L**L**V**Y**Q**I**K**K**Q**E..N**T**L**F**L**V**R**L**G**S**H**S**E**L**F... 90
 G**Y**R**E**L**H**V**D**G**P**R**G**D**W**L**L**I**Y**K**I**K**Q**Q**D**..L**I**L**T**L**V**R**T**G**S**H**H**N**L**L**G**K.. 100
 G**Y**R**E**L**H**V**D**G**P**R**G**G**W**L**L**I**Y**K**I**K**Q**Q**D**..L**I**L**T**L**V**R**T**G**S**H**H**N**L**L**G**K.. 100
 G**E**R**A**L**H**I**A**...P**D**W**L**L**V**Y**K**V**D**A**E**A..L**I**L**K**L**L**A**T**G**T**H**R**D**T**L**N**I**E** 61
 G**E**R**A**L**H**V**A**...P**D**W**L**L**V**Y**K**V**D**A**E**A..L**I**L**M**L**L**A**T**G**T**H**R**D**T**L**N**I**E** 95
 G**E**R**A**L**R**V**A**...P**D**W**L**L**V**Y**K**V**D**A**E**A..L**I**L**M**L**L**A**T**G**T**H**R**D**T**L**N**I**E** 61
 G**E**R**A**L**R**V**A**...P**D**W**L**L**V**Y**K**V**D**A**E**A..L**I**L**M**L**L**A**T**G**T**H**R**D**T**L**N**I**E** 61
 G**E**R**A**L**R**V**A**...P**D**W**L**L**V**Y**K**V**D**A**E**A..L**I**L**M**L**L**A**T**G**T**H**R**D**T**L**N**I**E** 61
 G**E**R**A**L**R**V**A**...P**D**W**L**L**V**Y**K**V**D**A**E**A..L**I**L**M**L**L**A**T**G**T**H**R**D**T**L**N**I**E** 61
 G**E**R**A**L**R**V**A**...P**D**W**L**L**V**Y**K**V**D**A**E**A..L**I**L**M**L**L**A**T**G**T**H**R**D**T**L**N**I**E** 61
 G**I**R**E**L**H**I**E**...S**D**W**L**L**A**Y**Q**V**L**D**D**E..L**V**L**L**L**I**D**T**G**S**H**A**Q**M**L**G**M.. 92
 G**H**R**E**C**H**I**L**...P**D**W**L**L**V**Y**R**I**E**D**D**V..L**V**L**T**L**A**R**T**G**T**H**S**D**L**F**G**K.. 96
 G**F**R**E**C**Y**I**T**...P**D**L**L**L**V**Y**L**I**E**K**D**V..L**V**L**T**L**T**R**T**G**T**H**S**G**L**F**G**K.. 96

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 non conserved
 similar
 $\geq 50\%$ conserved