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**Supplementary Figure 1. Electron microscopy of gB-698glyco/1G2 Fab complex. a)** Representative images of 2D class averages of gB-698glyc bound to 1G2 Fab. Top views of the complex were underrepresented compared to the side views. **b)** 2D class averages of redissolved crystals of Subtilisin E-treated gB-698glyco/1G2. Crystals of deglycosylated gB-698glyco/1G2 grown in the presence of a 1:1000 ratio of Subtilisin E were looped out of the crystal solution, washed three consecutive times in reservoir buffer (0.1M MMT pH 8.4, 12% PEG-1500, 5% glycerol) and dissolved in 25 mM Tris pH 7.5, 150 mM NaCl for visualization through EM as described in Materials and Methods. 2D class averages of side and top view of the complex are shown.



Contd.



Supplementary Figure 2. Electron density maps for the  $\Delta$ NgB-glyco/1G2 structure. 2|Fo|-|Fc| electron density map contoured to  $2\sigma$  along: a) domain III helix  $\alpha$ C; b) Asn208 and its linked N-acetyleglucosamine; c) the three-fold axis with a top view around Leu484; d) |Fo|-|Fc| "kicked" omit map for gB residues Phe297-Phe300 and 1G2 heavy chain residues Asn102-Phe104 contoured to  $3\sigma$ ; e) and f) Stereo images of 2|Fo|-|Fc| electron density maps contoured to  $2\sigma$ . Electron density maps are shown as a mesh around gB residues in stick representation. All images were created in Pymol.



**Supplementary Figure 3. Comparison of individual domains of HCMV gB with HSV and EBV gB.** Individual domains of HCMV gB (I-V) were superimposed on the corresponding domains in HSV (green) or EBV gB (pink) using LSQKAB in CCP4. The view in I-B is rotated 60 degrees away from the reader from the view in I-A, with the 1G2 epitope boxed in black.



Supplementary Figure 4. Comparison of surface charge distribution of herpesvirus gB. Surface charge distribution of HCMV (a), HSV (b) and EBV (c) gB generated using PyMol, contoured to -2 to +2 kT/e. Blue represents positive charge and red represents negative. The top and bottom panels are views generated by rotating the view in the middle 90° towards and away from the reader, respectively.

|  |   |  |  |  |  |   |  |   |  |   | G  | G   |  |
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|  | (1)   | 1 _1(  | )  | 20   |  | 30  | 40   | 50  | .60  | )   | 70   | U   | 86   |
| Merlin   | (1)   | MESRIWCLVV   | CANTCIAC   | LGAAV  | SSS <mark>ST</mark> -  | R <mark>G</mark> TSATH  | HHSSHTTS   | AAHSRSGSV   | SQRVT  | SSQTVSH   | GVNETI   | YNTTLK  | YGDVVGV  |
| 8816   | (1)   | MESRIWCLVV   | CANTCIAC   | CLGA <mark>A</mark> V:   | SSS <mark>TS</mark> -  | RATS  | HNGNHT <mark>S</mark> H  | TTSAQTRSI   | SSQRVT   | SS <mark>EA</mark> VSH  | RANET I  | YNTTLK  | YGDVVGV  |
| 8817   | (1)   | MESRIWCLVV   | CANTCIAC   | CLGA <mark>A</mark> V:   | SSS <mark>ST</mark> -  | R <mark>G</mark> TSATH <mark>S</mark>   | SHHSSHTT <mark>S</mark>  | A <mark>AH<mark>SRS</mark>GSV</mark>  | SQRVT  | SSQTVSH   | GVNETI   | YNTTLK  | YGDVVGV  |
| TR   | (1)   | MESRIWCLVV   | CANTGIAC   | LGAAV:   | SSSSTS   | RGTSATH   | HHSSHTTS   | AAHSRSGSV   | SQRVT  | SSQTVSH   | GVNETI   | TYNTTLK   | YGDVVGV  |
| 8819   | (1)   | MESRIWCLVV   | CVNLCIVO   | LGAAV  |  | - SHADOS  | HHSSHTTS   | AAHSRSGSV<br>mmga ompgu   | SQRVT  | SSQTVSH<br>Ge <mark>rn</mark> veu   | GVNETI   | VNTTLK  | YGDVVGV  |
| 8824   | (1)   | MESRIWCLVV   | CVNLCIVO   | LGAAV  | 333 <mark>73</mark> -  |   | HNGNHTSH   | TTSAQTRS  | SSORVT:  | SSEAVSH   | RANETI   | YNTTLK  | YGDVVGV  |
| TM-E28175  |   | MESRIWCLVV   | CVNLCIVO   | LGAAV  | SSS <mark>ST</mark> -  | RGTSATH   | HHSSHTTS   | AAHSRSGSV   | SORVE  | SSOTVSH   | GVNETI   | YNTTLK  | YGDVVGV  |
| 8818   | (1)   | MESRIWCLVV   | CANTCIAC   | LGAVV  | SSS <mark>ST</mark> -  | -SHATSS   | A <mark>HNGSHT</mark> SR   | TTSAQTRSV   | SQHVT  | SS <mark>EA</mark> VSH  | RANETI   | YNTTLK  | YGDVVGV  |
| 8821   | (1)   | MESRIWCLVV   | CANTCIAC   | CLGA <mark>A</mark> V:   | SSS <mark>TS</mark> -  | H <mark>a</mark> tss  | <mark>HNGSHT</mark> SR   | TTS <mark>AQ</mark> TRSV  | SSQHVT   | SS <mark>EA</mark> VSH  | RANET I  | YNTTLK  | YGDVVGV  |
| TM-31354   | (1)   | MESRIWCLVV   | CANTGIAC   | CLGAAVS  | SSS <mark>ST</mark> S  | H <mark>ats</mark> thi  | NGSH <mark>T</mark> SR <mark>T</mark> T  | SAQT <mark>RS</mark> VS-  | SQHVT  | SS <mark>EA</mark> VSH  | RANET I  | YNTTLK  | YGDVVGV  |
| VR1814   | (1)   | MESRIWCLVV   | CANTCIAC   | LGAVV  | SSS <mark>ST</mark> S  | HATSSAHN  | NGSHTSRTT  | SAQTRSVS-   | SQHVT  | SS <mark>EA</mark> VSH  | RANETI   | TYNTTLK   | YGDVVGV  |
| Consensus  | (1)   | MESKIWCLVV   | CANTGIAC   | LGAAV  | 5555T  | GTSATHS   | SH SHITS   | TA ARS SV   | SQRVT  | SSEAVSH   | RANETI   | INTTLK  | IGDVVGV  |
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|  | (87)  | 87   | ,100   |  | ,110   | ,120  | .13  | 01  | 40   | ,150  |  | ,160  | 172  |
| Merlin   | (85)  | NTTKYPYRVC   | SMAQGTD  | LIRF <mark>E</mark> R  | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVY  | KVLTFR  | RSYAYI   | HTTYLL  | GSNTEYVA   |
| 8816   | (83)  | NTTKYPYRVC   | SMAQGTD  | LIRF <mark>D</mark> R  | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVYÇ   | KVLTFR  | RSYAYI   | HTTYLL(   | GSNTEYVA   |
| 8817   | (85)  | NTTKYPYRVC   | SMAQGTD  | LIRFER   | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVY  | KVLTFRI   | RSYAYI   | HTTYLL(   | GSNTEYVA   |
| 8910   | (85)  | NTTRIFIRVO   | SMAQGTD  | LIKEER   | NIVCT  | MKPINED   | LDEGIMVVI  | KKNIVAHTE   | RADAAC   | KVLUEDI   | NOIAII<br>DOVAVT   | HUMANTY   | CONTEIVA   |
| 8822   | (85)  | NTTKYPYRVC   | SMAQGID  | LIRFER   | NIVCT  | MKPINED   | LDEGIMVV   | KRNIVAHTE   | KVRVYC   | KVLTFR  | RSYAYI   | HTTYLL  | GSNTEYVA   |
| 8824   | (83)  | NTTKYPYRVO   | SMAOGTD  | LIRFDR   | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVYC   | KVLTFR  | RSYAYI   | HTTYLL  | GSNTEYVA   |
| TM-E28175  | (85)  | NTTKYPYRVO   | SMAQGTD  | LIRF <mark>E</mark> R  | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVY  | KVLTFR  | RSYAYI   | HTTYLL  | GSNTEYVA   |
| 8818   | (85)  | NTTKYPYRVC   | SMAQGTD  | LIRF <mark>e</mark> r  | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVY  | KVLTFR  | RSYAYI   | HTTYLL  | GSNTEYVA   |
| 8821   | (84)  | NTTKYPYRVC   | SMAQGTD  | LIRF <mark>E</mark> R  | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVY  | KVLTFR  | RSYAYI   | HTTYLL  | GSNTEYVA   |
| TM-31354   | (85)  | NTTKYPYRVC   | SMAQGTD  | LIRFER   | NIVCT  | MKPINED   | LDEGIMVVY  | KRNIVAHTE   | KVRVYÇ   | KVLTFR  | RSYAYI   | HTTYLL(   | GSNTEYVA   |
| VK1814   | (85)  | NTTKYPYRVC   | SMAQGTD  | LIRFER   | NIVCTE   | MKPINED   | LDEGIMVV   | KRNIVAHTE   | KVRVY  | KVLTFRI   | RSYAYI   | HTTYLL  | GSNTEYVA   |
| Consensus  | (0/)  | NTTRIFIRVO   | SMAQGTD  | DIREER   |  | MRFINED   | LDEGIMVV   | I KKNI VAHTI  | KVKVIÇ   | KVDTER  | ROIAII   | HITIDDO   | GONTEIVA   |
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|  |   |  |  |  |  | <b>→</b>  | 6  |   |  | •   |  |   |  |
|  | (173)   | 173 ,180   |  | ,190   | 20   | 0   | ©<br>210   | 220   | 230  | •   | 240  |   | 258  |
| Merlin   | (173)<br>(171)  | 173 ,180<br>PPMWEIHHII   | 1SHSQCYS   | 190  | 20<br>LAGTVF   | 0<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM   | 220<br>DDYSNTHS   | 230<br>RYVTVI  | CDQWHSR   | 240<br>GSTWLY  | RETCNL  | 258<br>NCMVTIT   |
| Merlin<br>8816<br>8817   | (173)<br>(171)<br>(169)<br>(171)  | 173 ,180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII   | NSHSQCYS   | 190<br>SYSRVI  | 20<br>LAGTVFT<br>LAGTVFT   | 0<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR   | 240<br>GSTWLY<br>GSTWLY  | RETCNL  | 258<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR   | (173)<br>(171)<br>(169)<br>(171)<br>(172)   | 173 _180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII   | SHSQCYS<br>SHSQCYS<br>SHSQCYS<br>SHSQCYS   | 190<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT  | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | G<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819   | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)  | 173  | ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | G<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR   | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822   | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)   | 173  | HSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT  | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | G<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
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| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175  | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(169)<br>(171)   | 173  | HSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818  | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(169)<br>(171)<br>(171)  | 173<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI   | HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS<br>HSHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT<br>LAGTVFT  | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR   | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-528175<br>8818<br>8821<br>TM-31354  | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(170)<br>(171)  | 173<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII  | HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | CINKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM  | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814  | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)  | 173 ,180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII   | ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | CINKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM  | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS  | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR   | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus   | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)   | 173 180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII  | ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS<br>ABHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8829<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus   | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)  | 173 180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII  | A BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS<br>BHSQCYS  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>DDYSNTHS<br>DDYSNTHS  | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR   | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-228175<br>8818<br>8818<br>8818<br>8811<br>TM-31354<br>VR1814<br>Consensus   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(1713)   | 173 180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII  | HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS<br>HSSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-228175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)  | 173 180<br>P PMWE IHH II<br>P PMWE IHH II  | HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | CINKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM  | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-5175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus  | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)  | 173 180<br>P PMWE IHH II<br>P PMWE IHH II  | HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HSQCYS<br>HRHSQCYS<br>HRHSQCYS<br>HRHSQCYS<br>HSHSQCYS   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF<br>IAGTVF   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>DDYSNTHS  | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-3135<br>TM-31354<br>VR1814<br>Consensus  | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)  | 173180<br>P PMWE IHHII<br>P PMWE IHHII   | SHSQCYS<br>SHSQCYS<br>SHSQCYS<br>SHSQCYS<br>SHSQCYS<br>SHSQCYS<br>SHSQCYS<br>IRHSQCYS<br>SHSQCYS<br>SHSQCYS  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT<br>IAGTVFT  | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>EENKTMQLM<br>EENKTMQLM<br>EENKTMQLM<br>EENKTMQLM<br>EENKTMQLM<br>EENKTMQLM<br>EENKTMQLM<br>EENKTMQLM<br>EENKTMQLM  | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR   | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(173)  | 173180<br>P PMWE IHHII<br>P PMWE IHHII   | 270  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'   | 0<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY<br>VAYHRDSY   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(173)<br>(259)<br>(257)  | 173<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII  | 270  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF' 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220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>LDDYSNTHS<br>LDDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS<br>SPDDYSNTHS   | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR<br>ADQWHSR   | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(259)<br>(255)   | 173<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI<br>PPMWEIHHI   | ATSTGDV  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 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| 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>Merlin<br>8816<br>8817   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(259)<br>(257)<br>(257)   | 173  | ATSTGDV  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 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| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>Merlin<br>8816<br>8817<br>TR   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(259)<br>(257)<br>(255)<br>(255)  | 173 180<br>P PMWE IHH II<br>P PMWE IHH I   | ATSTGDV<br>ATSTGDV   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 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  | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>DIQDEKNV<br>DIQDEKNV  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>Merlin<br>8816<br>8817<br>TR<br>8819<br>8819   | (173)<br>(171)<br>(169)<br>(171)<br>(172)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(173)<br>(173)<br>(257)<br>(257)<br>(257)<br>(257)<br>(257)  | 173 180<br>P PMWE IHH II<br>P PMWE IHH I   | 270<br>ATSTGDV<br>ATSTGDV  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY 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 | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTS<br>DDYSNTHS<br>DDY                            | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI  | CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR<br>CDQWHSR   | 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>SVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI   | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>WR1814<br>Consensus<br>Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8822  | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(173)<br>(255)<br>(255)<br>(255)<br>(257)<br>(257)<br>(257)  | 173 180<br>P PMWE IHH II<br>P PMWE IHH I   | ATSTGDV<br>ATSTGDV<br>ATSTGDV  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LAGTVF<br>LA 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| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>8824   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(259)<br>(257)<br>(257)<br>(257)<br>(257)<br>(257)  | 259<br>ARSKYPYHFE<br>ARSKYPYHFE<br>ARSKYPYHFE  | 270<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 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258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>N 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| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818  | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(257)<br>(257)<br>(257)<br>(257)<br>(257)  | 173<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIIII<br>PPMWEIHIII                                       | ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV   | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 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| 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>SVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI   | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>Merlin<br>8816<br>8817<br>TR<br>8818<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8824  | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(171)<br>(173)<br>(255)<br>(257)<br>(255)<br>(257)<br>(255)<br>(257)<br>(255) | 173 180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHIII<br>PPMWEIHII                               | 270<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF'<br>IAGTVF' 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| 210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM  | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDYSNTS<br>DDY 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230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTV 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| 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY  | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>SVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI   | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>Merlin<br>8819<br>8819<br>8819<br>8819<br>8819<br>8819<br>8819<br>881   | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(259)<br>(257)<br>(257)<br>(257)<br>(257)<br>(257)<br>(257)<br>(257)<br>(257)          | 173<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEIHII<br>PPMWEI                                    | ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV  | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI  | 20<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF'<br>LAGTVF' 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   | ©<br>210<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM   | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>D  | 230<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYVTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI<br>RYNTVI  | 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240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>G | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>SVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI  | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV  |
| Merlin<br>8816<br>8817<br>TR<br>8819<br>8822<br>8824<br>TM-E28175<br>8818<br>8821<br>TM-31354<br>VR1814<br>Consensus<br>Merlin<br>8816<br>8817<br>TR<br>8819<br>8816<br>8817<br>TR<br>8819<br>8819<br>8819<br>8811<br>TM-E28175<br>8818<br>8811<br>TM-528175 | (173)<br>(171)<br>(169)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(171)<br>(173)<br>(255)<br>(255)<br>(255)<br>(255)<br>(257)<br>(255)<br>(257)<br>(257)                   | 173 180<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PPMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHHII<br>PMWEIHII<br>PMWEIHII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>PMWEIHIII<br>P | 270<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV<br>ATSTGDV | 190<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>SYSRVI<br>S 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20<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY<br>LAGTVFY 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      | CINKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM<br>ENKTMQLM  | 220<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>DDYSNTHS<br>D 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| 240<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>GSTWLY<br>G | RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>RETCNL<br>SVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI<br>DSVISWI | 258<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>NCMVTITT<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV<br>DIQDEKNV  |

Contd.



Contd.

| (690)                         | 689                      | 700                                      | 710                      | 720                      | 730       | 74         | 0 7       | 50       | 760                        | 774      |
|-------------------------------|--------------------------|--|--------------------------|--------------------------|-----------|------------|-----------|----------|----------------------------|----------|
| (009)<br>Morlin (697)         | ENGVEODUE                | VUEDEUUDDI                               | PRVINCI DI               | TMACLON                  | ACKAUCUA  | TCAUCCAUAS |           | ENDECAE  |                            | TTMVT.TV |
| 8816 (685)                    | ENSINGRAN                | IVEDKVVDPI                               | PPTIKGLDI                | LMSGLGA                  | AGKAVGVA. | IGAVGGAVAS | VVEGVATEI | KNDEGAE  | TILUALAVVI                 |          |
| 8817 (687)                    | ENSTROPUE                | VVEDEVVDEL                               | PPVLKGLDI                | DIMSGIGA                 | AGKAVGVA  | IGAVGGAVAC | VVEGVATEI | KNDEGAE  | TTT.VATAVVI                |          |
| TP (699)                      | ENGARODAR                | VUEDEVUDEI                               | PPYLKCLDI                | IMSGLGA                  | AGRAVGVA. | IGAVGGAVAS | VVEGVATEI | KNDFC AF | TIIDVAIAVVI<br>MTTTVATAVVI |          |
| 0010 (607)                    | FNSIKQRVK                | IVEDRVVDPL                               | PPILKGLDI                | JIMSGIGAN                | AGRAVGVA  | IGAVGGAVAS | VVEGVATEI | INPEGAL  | TILLVAIAVVI                |          |
| 0019 (007)                    | FNSIKQRVK                | IVEDKVVDPL                               | PPILKGLDI                | JIMSGIGAN                | AGRAVGVA  | IGAVGGAVAS | VVEGVATEI | KNPFGAF  | TIILVAIAVVI                |          |
| 0022 (007)                    | ENSINGRAN                | IVEDRVVDPL                               | PPILKGLDI                | JIMSGIGAN                | AGRAVGVA  | IGAVGGAVAS | VVEGVATEI | INPEGAL  | TILLVAIAVVI                |          |
| 0024 (003)                    | FNSIKQRVK                | IVEDRVVDPL                               | PPILKGLDI                | JIMSGIGAN                | AGRAVGVA  | IGAVGGAVAS | VVEGVATEI | INPEGAL  | TILLVAIAVVI                |          |
| IM-E281/5 (08/)               | FNSIKQRVK                | IVEDKVVDPL                               | PPILKGLDI                | JLMSGLGA                 | AGKAVGVA  | IGAVGGAVAS | VVEGVATE1 | KNPFGAF  | TILVAIAVVI                 |          |
| 8818 (085)                    | FNSIKQRVK                | YVEDKVVDPL                               | PPILKGLDI                | JLMSGLGA                 | AGKAVGVA. | IGAVGGAVAS | VVEGVATE1 | KNPFGAF  | TILLVALAVVJ                |          |
| 0021 (004)<br>TM-21 254 (605) | FNSIKQRVK                | IVEDKVVDPL                               | PPILKGLDI                | JLMSGLGA                 | AGKAVGVA  | IGAVGGAVAS | VVEGVATE1 | KNPFGAF  | TILVAIAVVI                 |          |
| 1 M-31 354 (085)              | FNSIKQRVK                | IVEDKVVDPL                               | PPILKGLDI                | JLMSGLGA                 | AGKAVGVA  | IGAVGGAVAS | VVEGVATE1 | KNPFGAF  | TILVAIAVVI                 |          |
| VK1814 (085)                  | FNSIKQRVK                | IVEDKVVDPL                               | PPILKGLDI                | JLMSGLGA                 | AGKAVGVA. | IGAVGGAVAS | VVEGVATEI | KNPFGAF  | TILLVAIAVVI                |          |
| Consensus (689)               | FNSIKQRVK                | IVEDKVVDPL                               | PPATKGTDI                | JLMSGLGA                 | AGKAVGVA  | IGAVGGAVAS | VVEGVATE1 | KNPFGAF  | TILVAIAVVI                 | LITYLIY  |
|                               |                          |  |                          |                          |           |            |           |          |                            |          |
|                               |                          |  |                          |                          |           |            |           |          |                            |          |
|                               |                          |  |                          |                          |           |            |           |          |                            |          |
|                               |                          |  |                          |                          |           |            |           |          |                            |          |
|                               |                          |  |                          |                          |           |            |           |          |                            | 0        |
| (775)                         | 775 780                  | 790                                      | 800                      |                          | 810       | 820        | 830       | 840      | 850                        | 860      |
| Merlin (773)                  | TRQRRLC <mark>T</mark> Q | PLQNLFPYLV                               | SA <mark>D</mark> GTTVT: | 3G <mark>S</mark> TKDTSI | LQAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEQAYQMLLAI                | LARLDAE  |
| 8816 (771)                    | TRQRRLC <mark>T</mark> Q | PLQNLFPYLV                               | SA <mark>D</mark> GTTVTS | 36 <mark>3</mark> TKDTS1 | LQAPPSYE  | ESVYNSGRKO | PGPPSSDAS | STAAPPYT | NEQAYQMLLAI                | LARLDAE  |
| 8817 (773)                    | TRQRRLC TQ               | PLQNLFPYLV                               | SADGTTVTS                | 36 <mark>3</mark> TKDTS1 | LQAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEQAYQMLLAI                | LARLDAE  |
| TR (774)                      | TRORRLCMO                | PLQNLFPYLV                               | SANGTTVTS                | GNTKDTS1                 | LQAPPSYE  | ESVYNSGRKO | GPPSSDAS  | TAAPPYT  | NEQAYQMLLAI                | LVRLDAE  |
| 8819 (773)                    | TRQRRLCTQ                | PLQNLFPYLV                               | SADGTTVTS                | 36 <mark>3</mark> TKDTS1 | LQAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEQAYQMLLAI                | LARLDAE  |
| 8822 (773)                    | TRORRLCTO                | PLONLFPYLV                               | SADGTTVTS                | 36 <mark>3</mark> TKDTS1 | LOAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEQAYOMLLAI                | LARLDAE  |
| 8824 (771)                    | TRORRLCMO                | PLONLFPYLV                               | SADGTTVTS                | GNTKDTSI                 | LOAPPSYE  | ESVYNSGRK  | PGPPSSDAS | TAAPPYT  | NEQAYOMLLAI                | LVRLDAE  |
| TM-E28175 (773)               | TRORRLCTO                | PLONLFPYLV                               | SADGTTVTS                | GSTKDTS1                 | LOAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEOAYOMLLAI                | LARLDAE  |
| 8818 (771)                    | TRORRLCMO                | PLONLFPYLV                               | SADGTTVTS                | GNTKDTSI                 | LOAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEOAYOMLLAI                | LARLDAE  |
| 8821 (770)                    | TRORRLCMO                | PLONLFPYLV                               | SADGTTVTS                | GNTKDTSI                 | LQAPPSYE  | ESVYNSGRK  | PGPPSSDAS | TAAPPYT  | NEQAYOMLLAI                | LARLDAE  |
| TM-31354 (771)                | TRORRLCMO                | PLONLFPYLV                               | SADGTTVTS                | 36 <mark>3</mark> TKDTS1 | LQAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEQAYOMLLAI                | LARLDAE  |
| VR1814 (771)                  | TRORRLCMO                | PLONLFPYLV                               | SADGTTVTS                | GNTKDTSI                 | LOAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEOAYOMLLAI                | LARLDAE  |
| Consensus (775)               | TRORRLCTO                | PLONLFPYLV                               | SADGTTVT                 | GSTKDTSI                 | LOAPPSYE  | ESVYNSGRKO | PGPPSSDAS | TAAPPYT  | NEOAYOMLLAI                | LARLDAE  |
|                               |                          |  |                          |                          |           |            |           |          |                            |          |
|                               | <u> </u>                 |  |                          |                          |           |            |           |          |                            |          |
| 4                             |                          | 0.70                                     | 000                      | 000                      |           | 000        |           |          |                            |          |
| (861)                         | 001                      | 010                                      | 000                      | 690                      |           | 909        |           |          |                            |          |
| Merlin (859                   | QRAQQNGTD                | SLDGRTGTQ                                | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| 8816 (857                     | QRAQQNGTD                | SLDGRTGT                                 | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| 8817 (859)                    | QRAQQNGTD                | SLDGRTGTQI                               | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| TR (860)                      | QRAQQNGTD                | SLDG <mark>Q</mark> TGT <mark>Q</mark> I | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| 8819 (859)                    | QRAQQNGTD                | SLDG <mark>Q</mark> TGT <mark>Q</mark> I | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| 8822 (859)                    | QRAQQNGTD                | SLDG <mark>Q</mark> TGT <mark>Q</mark> I | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| 8824 (857)                    | QRAQQNGTD                | SLDG <mark>Q</mark> TGT <mark>Q</mark> I | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| TM-E28175 (859)               | QRAQQNGTD                | SLDGRTGT                                 | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| 8818 (857)                    | QRAQQNGTD                | SLDG <mark>Q</mark> TGT <mark>Q</mark> I | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| 8821 (856)                    | QRAQQNGTD                | SLDG <mark>Q</mark> TGTHI                | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| TM-31354 (857)                | QRAQQNGTD                | SLDG <mark>Q</mark> TGT <mark>Q</mark> I | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| VR1814 (857)                  | QRAQQNGTD                | SLDG <mark>Q</mark> TGT <mark>Q</mark> I | DKGQKPNLL                | DRLRHRKN                 | GYRHLKDS  | DEEENV     |           |          |                            |          |
| Consensus (861                | ORACONGTO                | ST.DGOTGTOI                              | OKGOKPNI.I.              | DRIBHRKN                 | GYRHLEDS  | DEEENV     |           |          |                            |          |

**Supplementary Figure 5. Sequence alignment of gB from various HCMV strains.** Full length gB sequences from 12 strains of HCMV were aligned using AlignX (Vector NTI, Invitrogen Inc.). Secondary structure elements are represented as red cylinders for helices and green arrows for beta sheets, as predicted for the Merlin strain sequence using the JPRED server (University of Dundee).



**Supplementary Figure 6. Depletion efficiency and specificity of soluble gB, gH/gL and pentamer on human sera.** Sera incubated with gB-698glyc, gH/gL or pentamer as described in Table 4 were tested for remaining reactivity to the respective proteins in an ELISA assay. Titers are expressed as a percentage of titers from mock-depleted sera. The x-axis represents the depleting protein. Error bars represent standard deviation across five individual serum samples.



Supplementary Figure 7. Western blot for gB immunoprecipitated from purified VR1814

virions. Uncropped gel image for western blot shown in Figure 5B.

| gB Domain<br>(residues in<br>CMV gB) | 2GUM<br>(HSV gB) | 3FVC<br>(EBV gB) | 4OSN (CMV<br>gB AD-4<br>alone) | 4OT1 (CMV gB<br>AD-4 – SM5<br>complex) |
|--------------------------------------|------------------|------------------|--------------------------------|--|
| I (134-343)*                         | 2.96             | 2.679            |                                |  |
| II (344-436)                         | 2.7              | 2.3              | 0.983                          | 0.754                                  |
| III (479-533)                        | 0.951            | 0.851            |                                |  |
| IV (88-103,<br>538-638)              | 2.12             | 1.533            |                                |  |
| V (642-695)                          | 2.744            | 2.487            |                                |  |

Supplementary Table 1 RMSD among herpesviruses postfusion gBs

\* Domain I was aligned defining residue ranges 136-274, 297-303 and 321-335.

HCMV gB domains were individually superimposed onto corresponding domains from HSV or EBV gBs or to the isolated AD-4 domain structures using LSQKAB in the CCP4 suite. The boundaries of the domains are indicated in parentheses. Domain I was defined as residue ranges 136-274, 297-303 and 321-335.

| Residue in gB |        | Atom  | Residu | ue in 1G2 | Atom | Distance<br>(Å) |
|---------------|--------|-------|--------|-----------|------|-----------------|
| Tyr           | 280    | OH    | Tyr    | 103H      | N    | 3.28            |
| Clu           | 202    | 0     | Asn    | 102H      | OD1  | 2.64            |
| Gly           | 282    | 0     | Tyr    | 103H      | 0    | 2.59            |
| Gly           | 282    | С     | Tyr    | 103H      | 0    | 3.39            |
|               |        |       | Asn    | 102H      | CG   | 3.1             |
|               |        | 0     | Asn    | 102H      | OD1  | 2.61            |
|               |        |       | Asn    | 102H      | ND2  | 3.06            |
| Thr           | 283    | CA    | Asn    | 102H      | OD1  | 3.28            |
|               |        | С     | Asn    | 102H      | OD1  | 2.9             |
|               |        | CG2   | Phe    | 105H      | CZ   | 3.47            |
|               |        | OG1   | Tyr    | 50L       | OH   | 3.5             |
|               |        | CB    | Trp    | 101H      | 0    | 3.38            |
|               |        | CG    | Trp    | 101H      | NE1  | 3.22            |
|               | rg 285 | CD    | Trp    | 101H      | 0    | 3               |
| Arg           |        | CZ    | Ser    | 32H       | OG   | 3.5             |
|               |        | NH1   | Ser    | 32H       | 0    | 3.38            |
|               |        | NH2   | Ser    | 32H       | 0    | 3.46            |
|               |        | 11112 | Ser    | 32H       | OG   | 2.66            |
| Acr           | 286    | CB    | Tyr    | 109H      | OH   | 3.05            |
| ASII          | 280    | CG    | Tyr    | 109H      | OH   | 3.31            |
| Phe           | 290    | CD2   | Ser    | 32H       | OG   | 3.27            |
| Gly           | 291    | 0     | Arg    | 31H       | NH1  | 2.95            |
| Glu           | 292    | 0     | Ser    | 32H       | CB   | 3.24            |
|               |        | Ν     | Arg    | 31H       | 0    | 2.61            |
| Ala           | 294    | CA    | Arg    | 31H       | 0    | 3.39            |
|               |        | CB    | Arg    | 31H       | 0    | 3.1             |
|               |        | 0     | Tyr    | 103H      | CE2  | 3.39            |
|               |        | 0     | Phe    | 104H      | CE1  | 3.44            |
| Ile           | 200    |       | Tyr    | 103H      | CE2  | 3.12            |
| 110           | 277    | Ν     | Tyr    | 103H      | CZ   | 3.4             |
|               |        |       | Tyr    | 103H      | OH   | 3.49            |
|               |        | CG1   | Tyr    | 103H      | CD2  | 3.45            |

Supplementary Table 2 Contact residues at the gB-1G2 interface

Table of contact residues within a 3.5 Å cutoff was generated using the CONTACT program within the CCP4 suite.

| Sample       |             | Rmax<br>(RU) | Chi <sup>2</sup><br>(RU <sup>2</sup> ) | Ligand<br>Level (RU) | Max binding<br>(RU) | Capture-adjusted<br>max binding |
|--------------|-------------|--------------|--|----------------------|---------------------|---------------------------------|
|              | ΔNgB-glyco  | 60.5         | 0.0582                                 | 106.2                | 36.4                | 0.34                            |
|              | Y280A       | 260.2        | 0.0535                                 | 92                   | 5.1                 | 0.06                            |
|              | N281A       | 41.2         | 0.0565                                 | 95.7                 | 17.7                | 0.18                            |
|              | T283A       | 38.4         | 0.0709                                 | 95.6                 | 20.9                | 0.22                            |
|              | N284A       | 75.4         | 0.284                                  | 220.9                | 50.4                | 0.23                            |
|              | R285A       | 36.8         | 0.0905                                 | 91.8                 | 2                   | 0.02                            |
|              | N286A       | 122.2        | 1.76                                   | 222.9                | 111.6               | 0.5                             |
| gB           | NRN-AAA*    | 0.6          | 0.574                                  | 219.9                | 4.6                 | 0.02                            |
| mutants      | F290A       | 34.5         | 0.0512                                 | 97.6                 | 6                   | 0.06                            |
|              | E292A       | 39.8         | 0.0492                                 | 97.7                 | 12                  | 0.12                            |
|              | N293A/D295A | 81.6         | 0.152                                  | 224.1                | 45.2                | 0.2                             |
|              | YND-AAA**   | 51.1         | 0.0498                                 | 93.8                 | 3.5                 | 0.04                            |
|              | F297A       | 176.6        | 0.0491                                 | 97.6                 | 9.1                 | 0.09                            |
|              | F298A       | 42.2         | 0.0512                                 | 102.1                | 18                  | 0.18                            |
|              | I299A       | 38.8         | 0.0614                                 | 101.6                | 13.3                | 0.13                            |
|              | F298A/I299A | 72           | 0.102                                  | 94.6                 | 2.9                 | 0.03                            |
| 1G2          | WT          | 25.6         | 0.0735                                 | 44.3                 | 14.2                | 0.32                            |
|              | R31S        | 24.1         | 0.0545                                 | 34.4                 | 12.7                | 0.37                            |
|              | S32A        | 30.5         | 0.0922                                 | 56.3                 | 20.5                | 0.36                            |
| 1G2          | N102A       | 17.5         | 0.0802                                 | 55.8                 | 9.9                 | 0.18                            |
| heavy        | Y103A       | 14.9         | 0.0721                                 | 44.3                 | 8.5                 | 0.19                            |
| chain        | F104A       | 20.9         | 0.0753                                 | 49.3                 | 11.5                | 0.23                            |
|              | Y103A/F104A | 7.1          | 0.083                                  | 44.4                 | 4.9                 | 0.11                            |
|              | Y109A       | 22.5         | 0.0776                                 | 43.6                 | 13.1                | 0.3                             |
| 1G2<br>light | Y50A        | 25.2         | 0.0806                                 | 54.4                 | 15.7                | 0.29                            |
| chain        | R51A        | 26.4         | 0.0784                                 | 60.2                 | 15.8                | 0.26                            |

Supplementary Table 3. Details of SPR analysis of gB-1G2 interaction

\*NRN-AAA = N284A/R285A/N286A

\*\*YND-AAA = Y280A/N293A/D295A

Rmax, Chi<sup>2</sup>, ligand level, max binding level and capture-adjusted max binding level for the single cycle kinetic runs reported in Table 3. While these values are reported for the 1G2 double mutant Tyr103Ala/Phe104Ala, we could not get a reliable fit for the curve for measuring the kinetic constants reported in Table 2.