

11 August 2011 03:42

Majority	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV																																			
	10						20						30						40						50						60					
1	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
2	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
7	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
10	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
11	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
19	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
24	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
31	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
34	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
35	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
46	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
52	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
61	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
64	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
67	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
82	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
84	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
90	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
120	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
128	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
160	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
210	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
237	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
238	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
239	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
299	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
314	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	AAXXXX	SEP	AAAS	A	AQ	GDT	SSI	GST	MQQAS	YAMGV							56											
316	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													
340	MNTI	FKI	SAL	TL	SAAL	AL	SACG	KKEA	APAS	ASEP	AAASSA	QQGDT	SSI	GST	MQQAS	YAMGV							60													

11 August 2011 03:42

343	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
344	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
349	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
387	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
391	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
398	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
400	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
401	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
403	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
407	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
408	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
409	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
410	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
411	MNTI	FKI	STL	TL	AATL	AL	SACGKKEAAPAS	ASEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	60	
412	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
413	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
414	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
415	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
416	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
417	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
418	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
419	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
420	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
421	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
422	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
423	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
424	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
425	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
426	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAA	XXXX	SEPAAAS	AAQ	GDT	SSI	GST	MQQ	ASY	AMGV	56
427	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
428	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	
430	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPAS	ASEPAAASSA	Q	GDT	SSI	GST	MQQ	ASY	AMGV	60	

11 August 2011 03:42

431	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
434	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
436	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAXXXXSEPAAAS	A	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	56
441	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
442	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
443	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
444	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
445	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
446	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
451	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAXXXXSEPAAAS	A	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	56
466	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
467	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
468	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
488	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
492	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
493	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
494	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
507	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAXXXXSEPAAAS	A	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	56
597	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAXXXXSEPAAAS	A	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	56
613	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
638	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
639	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
640	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
641	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
642	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
643	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
644	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAXXXXSEPAAAS	A	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	56
645	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
646	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
647	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
648	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	
649	MNTI	FKI	SAL	TL	SAAL	AL	SACGKKEAAPASASEPAAASSA	Q	G	D	T	S	S	I	G	S	T	M	Q	Q	A	S	Y	A	M	G	V	60	

11 August 2011 03:42

650	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
651	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
652	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
653	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
654	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
655	MNTI FKI SAL TL SAAL AL SACGKKEAAXXXXSEPAAASSAQQGDTSSI GSTMQQASYAMGV	56
656	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
657	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
658	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
659	MNTI FKI SAL TL SAAL AL SACGKKEAAXXXXSEPAAASSAQQGDTSSI GSTMQQASYAMGV	56
660	MNTI FKI SAL TL SAAL AL SACGKKEAAPASASEPAAASSAQQGDTSSI GSTMQQASYAMGV	60
661	MNTI FKI SAL TL SAAL AL SACGKKEAAXXXXSEPAAASSAQQGDTSSI GSTMQQASYAMGV	56

Majority

	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	
	70 80 90 100 110 120	
1	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQR AKAVEKH	120
2	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
7	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	116
10	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
11	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
19	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
24	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	116
31	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
34	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
35	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
46	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
52	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
61	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
64	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
67	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	120
82	DI GRSLKQMKEQGAEI DLKVFTTEAMQAVYDGKEI KMT EEQAQEVMMKFL QEQQAKAVEKH	116

11 August 2011 03:42

84	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
90	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
120	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
128	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
160	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
210	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
237	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
238	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
239	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
299	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
314	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
316	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
340	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
343	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
344	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
349	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
387	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
391	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
398	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
400	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
401	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
403	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
407	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
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410	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116
411	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
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413	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
414	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
415	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	120
416	DI	GRSLKQMKEQGAEI	DLKVFTEAMQAVYDGKEI	KMT EEQAQEVMMKFL	QEQQAKAVEKH	116

11 August 2011 03:42

417	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
418	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
419	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
420	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
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423	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	116
424	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	116
425	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
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427	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
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430	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
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436	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	116
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466	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
467	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
468	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
488	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
492	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
493	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
494	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	120
507	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	116
597	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EE	QAQEVMMKFL	QE	QQA	KAVEKH	116

11 August 2011 03:42

613	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
638	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
639	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
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641	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
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643	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
644	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	116
645	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
646	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
647	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
648	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
649	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
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652	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
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654	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
655	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	116
656	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
657	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
658	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
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660	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	120
661	DI	GRSLKQMKEQGAEI	DL	KVFTTEAMQAVYDGKEI	KMT	EEQAQEVMMKFL	QE	QQA	KAVEKH	116

Majority

KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI TKQGEGKQPTKDDI VTVEYEGRLI D																	
		130			140			150			160			170			180

1	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI TKQGEGKQPTKDDI VTVEYEGRLI D	180
2	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI TKQGEGKQPTKDDI VTVEYEGRLI D	180
7	KA E AKANKEKGEAFLKENAAKDGVKTTASGLQYKI TKQGEGKQPTKDDI VTVEYEGRLI D	176

11 August 2011 03:42

10	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
11	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
19	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
24	KA E AKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	176
31	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
34	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
35	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
46	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
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82	KA E AKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	176
84	KA E AKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	176
90	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
120	KA E AKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	176
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237	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
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387	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
391	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	176
398	KADAKANKEKGEAFLKENA GKES VKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180

11 August 2011 03:42

400	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
401	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
403	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
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11 August 2011 03:42

444	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
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641	KADAKANKEKGEAFLKENA GKES VKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
642	KADAKANKEKGEAFLKENA GKES VKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
643	KADAKANKEKGEAFLKENA GKES VKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
644	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQP S	KDDI	VTVEYEGRLI	D	176
645	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
646	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
647	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
648	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
649	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
650	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
651	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
652	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
653	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
654	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQPT	KDDI	VTVEYEGRLI	D	180
655	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGE	GKQP S	KDDI	VTVEYEGRLI	D	176

656	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGEGKQPTKDDI	VTVEYEGRLI	D	180
657	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGEGKQPTKDDI	VTVEYEGRLI	D	180
658	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGEGKQPTKDDI	VTVEYEGRLI	D	180
659	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGEGKQPSKDDI	VTVEYEGRLI	D	176
660	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGEGKQPTKDDI	VTVEYEGRLI	D	180
661	KADAKANKEKGEAFLKENAAKDGVKTTASGLQYKI	TKQGEGKQPTKDDI	VTVEYEGRLI	D	176

1	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
2	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
7	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
10	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
11	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
19	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
24	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
31	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
34	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
35	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
46	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
52	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
61	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S																	

237	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
238	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
239	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
299	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
314	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
316	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
340	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
343	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
344	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
349	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
387	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	L	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
391	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
398	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S																	

423	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
424	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
425	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
426	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
427	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
428	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
430	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
431	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
434	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
436	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
441	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
442	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
443	GT	V	F	D	S	S	K	A	N	G	G	T	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S																	

643	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
644	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	236
645	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
646	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
647	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
648	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
649	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
650	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
651	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
652	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
653	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
654	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S	N	L	A	Y	R	E	Q	G	A	G	D	K	I	G	P	N	240
655	GT	V	F	D	S	S	K	A	N	G	G	P	V	T	F	P	L	S	Q	V	I	P	G	W	T	E	G	V	Q	L	L	K	E	G	G	E	A	T	F	Y	I	P	S																	

	250	260	270	
1	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
2	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
7	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
10	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
11	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
19	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
24	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
31	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
34	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273

11 August 2011 03:42

35	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
46	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
52	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
61	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
64	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
67	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
82	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
84	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
90	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
120	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
128	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
160	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
210	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
237	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
238	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
239	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
299	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
314	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
316	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
340	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
343	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
344	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
349	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
387	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
391	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
398	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
400	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
401	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
403	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
407	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
408	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
409	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273

11 August 2011 03:42

410	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
411	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
412	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
413	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
414	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
415	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
416	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
417	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
418	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
419	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
420	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
421	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
422	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
423	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
424	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
425	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
426	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
427	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
428	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
430	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
431	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
434	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
436	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
441	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
442	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
443	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
444	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
445	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
446	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
451	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
466	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
467	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273

11 August 2011 03:42

468	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
488	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
492	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
493	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
494	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
507	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
597	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
613	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
638	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
639	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
640	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
641	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
642	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
643	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
644	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
645	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
646	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
647	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
648	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
649	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
650	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
651	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
652	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
653	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
654	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
655	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
656	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
657	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
658	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
659	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269
660	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	273
661	ATLVFDVKLVKI	GAPENAPAKQPAQVDI	KKVN.	269

Decoration 'Decoration #1': Shade (with solid bright cobalt) residues that differ from the Consensus.