

# Clustal Omega

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Results for job clustalo-l20181023-020716-0560-64435970-p2m

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CLUSTAL O(1.2.4) multiple sequence alignment

tr	Q8UW88	Q8UW88_ORYLA	-----MKAVVLALTLALVAGQHP-NFAPDFSAGKTYVYKYEASIMSGLPDEGLARAGL	52
tr	Q156A2	Q156A2_CARAU	-----VLALTVALVASQOI-NLVPEFAPDKTYVYKYEALLLGGLPQEGLARAGI	48
tr	Q90YN8	Q90YN8_DANRE	-----MRAVVLALTVALVACQF-ILVPEFAHDKTYVYKYEALLLGGLPQEGLARAGI	52
tr	Q90WQ5	Q90WQ5_PLAFE	-----	0
tr	B9V416	B9V416_CLUHA	-----MRVLVLSLAIALVAGQNV-NLAPEFSAAKTYVYKYEALLLGGLPVEGLAKAGM	52
tr	Q800P0	Q800P0_CORLV	-----MRAVVLALTVALVASQHV-NFAPEFAASKTYEYKYEALLLGGLPQEGLARAGV	52
tr	Q800N5	Q800N5_SALTR	-----MRAVVLALTVALVASQSV-NFAPDFAASKTYVYKYEALLLGGLPQEGLARAGV	52
tr	Q800N3	Q800N3_SALFO	-----MRAVVLALTVALVASQSV-NFAPDFAASKTYVYKYEALLLGGLPQEGLARAGV	52
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	-----MRAVVLALTVALVASQSV-NFAPDFAASKTYVYKYEALLLGGLPQEGLARAGV	52
tr	Q8IU34	Q8IU34_CRAGI	-----MLLLAVSTALVAAA--QTPSQAYESNKEYLYEYETQALTGIPMGSTIYSGM	51
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		MTVACIMVRLLVLTISLGLAACQPKSIETVYSNGKEYLYDYESQILSGLPQGSRIYSGF	60
tr	Q8UW88	Q8UW88_ORYLA	NVSSKILISAVHENTY-MLKPLELIINEYNGI-----WPKDHPEPVGKL-TAAMT	100
tr	Q156A2	Q156A2_CARAU	KVNSKVHLSAVTENTF-LM-LMEPVIYEYAGI-----WPKDPFFPATKL-TSALA	95
tr	Q90YN8	Q90YN8_DANRE	KVSSKVLISATTENTY-LMKLMDPLLYEYAGT-----WPKDPFVPATKL-TSALA	100
tr	Q90WQ5	Q90WQ5_PLAFE	-----	0
tr	B9V416	B9V416_CLUHA	KVSSKVLISALAENIY-LLKLADPEIFEYSGV-----WPRDPFVPATKL-TSALA	100
tr	Q800P0	Q800P0_CORLV	KVISKVLISAVAENTY-LLKLVDPEIFEYSGV-----WPKDNFVPAAKL-TSALA	100
tr	Q800N5	Q800N5_SALTR	KIISKVLISAVAENTY-LLKLVNPEIFEYSGV-----WPKDPFVPAAKL-TSALA	100
tr	Q800N3	Q800N3_SALFO	KVVSKVLISAVAENTY-LLKLVNPEIFQYSGV-----WPKDPFVPAAKL-TSALA	100
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	KVISKVLISAVAENTY-LLKLVNPEIFEYSGV-----WPKDPFVPAAKL-TSALA	100
tr	Q8IU34	Q8IU34_CRAGI	KMKSDVRIQFRSRSSA-TLKMDKLTFAKINDPIESVDPTQQQVPAEMFQPLTGRDAEQML	110
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		KLKAQVRFQLISSSGNMKMELRNPKIYSINSEIGKEDSSREMLPMELFQELLDMDSDKMK	120
tr	Q8UW88	Q8UW88_ORYLA	PELNIPIKFEYSNGVVGKVFAPEGVSDLVLFYRGFLNQLNIKKTH-----	148
tr	Q156A2	Q156A2_CARAU	AQLQIPIKFEYANGVVGKVFAPAGVSPTVLNLHRGILNQLNLKKTQ-----	143
tr	Q90YN8	Q90YN8_DANRE	AQLQIPIKFEYANGVVGKVFAPAGVSPVMNLHRGILNQLNLKKTQ-----	148
tr	Q90WQ5	Q90WQ5_PLAFE	-----GVVGKVFAPAGISETVLNLLRGIINILQLNIKKKTQ-----	35
tr	B9V416	B9V416_CLUHA	AQFLIPIKFEYTNGVVGKLFAPAENVSTTVLNHRGILNQLNLKQNQ-----	148
tr	Q800P0	Q800P0_CORLV	AQLSTPIKFEYANGVVGKVFAPTAVSETVLNVHRGILNQLNLKKTQ-----	148
tr	Q800N5	Q800N5_SALTR	AQFSIPIKFEYARGVVGKVLAPTAVSETVLNVHRGILNQLNLKKTQ-----	148
tr	Q800N3	Q800N3_SALFO	AQFSIPIKFEYAKGVVGKVFAPTALSETVLNVHRGILNQLNLKKTQ-----	148
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	AQFSIPIKFEYAKGVVGKVLAPTAVSETVLNVHRGILNQLNLKKTQ-----	148
tr	Q8IU34	Q8IU34_CRAGI	TDLSPINFRYVRGNVKDIHHEADDPESVNVKKGLLSMLMNLEKRRKELRKSGVIPQVL	170
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		RELIKPLSFSFIRGHIEDLVTGDDPEWSVNVKRGCSLMEVNFNERQSLDP-----KID	175
tr	Q8UW88	Q8UW88_ORYLA	-----NVYDLQEAGTQGVCKTLYSVNEDVKA--DRILLTKTRDMNHCHERISREIG	197
tr	Q156A2	Q156A2_CARAU	-----NIYELQEAGAQGVCRTHYVISSEDPKA--NHITVTTKSKDLSHCQERIMKDVG	192
tr	Q90YN8	Q90YN8_DANRE	-----NIYEMQEAGAQGVCRTHYVINEDPKA--NHIIVTTKSKDLSHCQERIMKDVG	197
tr	Q90WQ5	Q90WQ5_PLAFE	-----NVYELQEPGVQGVCKTLYVISSEDPKA--ERILLTKTKDLNNCQERIIKIDIG	84
tr	B9V416	B9V416_CLUHA	-----NVYELQEAGAQGVCRTFYVISSEDPKS--ERVVVTTKSKDLNNCQERIIKIDMG	197
tr	Q800P0	Q800P0_CORLV	-----NVYELQEAGAQGVCRTHYVISSEDAKA--ERIHLLTKTKDLNNCQERIMKDFG	197
tr	Q800N5	Q800N5_SALTR	-----NVYELQEAGAQGVCRTHYVISSEDAKA--ERIHLLTKSKDLNNCQERIMKDFG	197
tr	Q800N3	Q800N3_SALFO	-----NVYELQESGVQGVCKTLYVISSEDAKA--QRIHLLTKSKDLNNCQERIRKDFG	197
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	-----NVYELQEAGAQGVCRTHYVIREDAKA--ERIHLLTKSKDLNNCQERIMKDFG	197
tr	Q8IU34	Q8IU34_CRAGI	RPQSSDEGSMFTVMEPSIVGECETLYRISPTWSTSANPWHITKVRNYQHCLDRPKYFGS	230
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		VLPSPDTPPSIYRVIEPSITGECETTYRLKSDRSDGSPSMDIEKVRNFNRCKEKVIFRRN	235
tr	Q8UW88	Q8UW88_ORYLA	LAYTEKCECQKE--SKNLRGSTSYRIILKPVPSGIMILEADVNELIQFSPVSERYGAAQ	255
tr	Q156A2	Q156A2_CARAU	LAYTERCHECTER--IKSLIETATYNYIMKPASAGVLITEETVEEVHYFSPHIEIHDAAM	250
tr	Q90YN8	Q90YN8_DANRE	FAYTEKCAECTER--VKSLIETATLYYIMKPADHGALIAEATVEEVDQFSPFHEIHGCCM	255
tr	Q90WQ5	Q90WQ5_PLAFE	LAYTEKVECEAR--GTTLKGAAAFNYVLKPAPTALILEATATELIQFSPFSILNGAAQ	142
tr	B9V416	B9V416_CLUHA	LAYLETL-----K--ANSLTGAATYSYIMKPSATGALITEATVWELHEVTPVAEMGGVAQ	250
tr	Q800P0	Q800P0_CORLV	LAYTEKCEVCQQR--GKALRGAAAYSIMKPTATGALIMEATVTELHQFTPFNEMTGAAQ	255
tr	Q800N5	Q800N5_SALTR	LAYTEKCEVCQQR--GKTLMGAAAYNYIMKPADSGALIMKATVTELHQFTPLNKMTGAAQ	255
tr	X5IE94	X5IE94_ONCKE	LAYTEKCEVCQQR--GKTLMGAAAYNYIMKPTATGALIMEATVTELHQFTPFNEMTGAAQ	255
sp	Q92093	VIT_ONCMY	LAYTEKCEVCQQR--GKTLMGAAAYNYIMKPTATGALIMEATVTELHQFTPFNEMTGAAQ	255

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Pgenr_VTG_cds.comp144315_c0_seqI m50928	MSFLAQAACVRE-QSEPLPSAQYINYLQKWKQFLSSALSSQVFPQKHSKHLV MMNWRECEYCDIDEDMETFTAQSSVRYSLGSPDQFLILRAVGESQYNFVPLYENRGRVS	295
---	---	-----

tr Q8UW88 Q8UW88_ORYLA	TETRQTLVFLEIQKSP--IAPVSAEYHHRGSLKYEFSEK-----EFELSPQLQV-----	301
tr Q156A2 Q156A2_CARAU	MEAKHTLAFVEIEMAP--IVPIKADYLRGSLQYEFAT-----EILQTPIQLM-----	296
tr Q90YN8 Q90YN8_DANRE	MEAKQTLAFVEIEKTP--VVPIKADYMPRGSLQYEFAT-----EILQTPIQLM-----	301
tr Q90WQ5 Q90WQ5_PLAFE	MEAKQILTFVDIEKIP--VEPIKAAYLPRGSVQYEFGS-----ELLQTPVQLL-----	188
tr B9V416 B9V416_CLUHA	MEAKQSLTLLIEVKRTP--IMQANADYLARGALQYEFAT-----EILQTPIQLI-----	296
tr Q800P0 Q800P0_CORLV	MEAKQMLTFVEIKKT-----	270
tr Q800N5 Q800N5_SALTR	MEAKQMLTFVEIKNA-----	270
tr Q800N3 Q800N3_SALFO	MEAKQMLTFVEIKKD-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	MEAKQMLTFVEIKKDP--IIVPDNNYVHRGSIRYEFAT-----EILQMPIQLL-----	301
tr Q8IU34 Q8IU34_CRAGI	TYLNQTLNLVKEEDVKTSLSSEPQSPTKVKSGLQYTSRELEMRDSSSILQQSSDSLSTDKS	349
Pgenr_VTG_cds.comp144315_c0_seqI m50928	TFLNQTLTLLDSRPISDQIPEMRSRLQHERPL--KANTLEEKSSSS-----LS-----	341

tr Q8UW88 Q8UW88_ORYLA	-----KVTERAQTEELLNHLVTHNAEKVNDHAPLKYL	334
tr Q156A2 Q156A2_CARAU	-----KISDAPAQLVEVLKHLVANNVDMVHEDAPLKFV	329
tr Q90YN8 Q90YN8_DANRE	-----KISDAPAQIVEVLKHLVSNNKMDVHDDAPFKFV	334
tr Q90WQ5 Q90WQ5_PLAFE	-----RISNAEAQIVETLNHLVTYNVAKVHEDAPLKFI	221
tr B9V416 B9V416_CLUHA	-----RISDPAAQTVEILDHLVANNVAKVHEDAPLKFI	329
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	-----KISNARAQAVKIILNHLVTYNTAPVHEDAPLKFL	334
tr Q8IU34 Q8IU34_CRAGI	SPESPQHSSSSSNHHPSPQPPSPQPKTTSNQAADRIKLLKMLEVFMKPTIQPEAGPLLM	409
Pgenr_VTG_cds.comp144315_c0_seqI m50928	----PWKSDLTE-----K-EKEEYYKKTWKVLVGIEELTKDKMEDEVSDLLL	383

tr Q8UW88 Q8UW88_ORYLA	ELIQFLRLARYEDLEVLWSKYRNMPSE--HRFWLLEAIPAIGTSAAVRFIKEKFQAE DL	390
tr Q156A2 Q156A2_CARAU	QLIQLLRVSTLENIEAIWAQFKDKPA---YRRWLLDALPSVGTPIVVKFIKEKFLAGEL	385
tr Q90YN8 Q90YN8_DANRE	QLVQLLRVASLEKIEAIWSQFKDKPV---YRRWLLDALPAVGTPIVIKFIKEKFLAGEF	390
tr Q90WQ5 Q90WQ5_PLAFE	ELIQLLRVARLESIEALWTQFKARPD---HRHWLLNAIPAIGTHTALRFIKEKFLIGEL	277
tr B9V416 B9V416_CLUHA	QLIQVLRVASLENIEAIWSQFKARPE---YRRFILDAPVVGTPVAVRFIKEKFLAKDI	385
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	QFIQLLRMASSSETINAIWAEFKAKPA---YRHWILDVAPSIGSSVAVRFIKEKFLAGDI	390
tr Q8IU34 Q8IU34_CRAGI	SLLEEIRTADESLSRAVYRECSNGET--AATVQDADGHPSICGTTSAATEVLVDSILNDQL	467
Pgenr_VTG_cds.comp144315_c0_seqI m50928	ELGRLLKKLDKTTLNKLTDKIITDKPSKYSARKTLLDLLPTIGTYDTIDVLLERIEKQEL	443

tr Q8UW88 Q8UW88_ORYLA	SVAEAVRTLVAAVHVMKANPESIK---LFETLTEDNKIDANPVLREIVFLGYGTMISKY	446
tr Q156A2 Q156A2_CARAU	TLPEFIQALVVALHMTADLETMQ---LTASLATHEKIAKVPALREVVMLGYGSMIARH	441
tr Q90YN8 Q90YN8_DANRE	TTPEFIQTLVIALQMTADPETIK---MTASLATHEKFATIPALREVVMLGYGSLIAKY	446
tr Q90WQ5 Q90WQ5_PLAFE	TIAEVAQALLASVHMTADLEAIK---LVEGLIGNPNIQENPILREVVLGYGTLVAKY	333
tr B9V416 B9V416_CLUHA	TVAETVQVLLAAVHMPADVEIIR---LISTMAHHRKVQVHPVLREIAMLYGTMIAKY	441
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	TIFEAAQALVAAVHMAADLETVK---LVESLAFNHKIQTHPVLRELTMLGYGTMVSKY	446
tr Q8IU34 Q8IU34_CRAGI	PQSEAVVALGILSLSARPVDVLIAKLLDL---TRSSQVSKDRYLKRAAFLCLGSVAGML	523
Pgenr_VTG_cds.comp144315_c0_seqI m50928	PRDSVIVSLMSLSLLPQPDVFIVKRFMNYITVLDKTKSMTDDQLLRSSAWLCLGSLGCKM	503

tr Q8UW88 Q8UW88_ORYLA	CEESDVCPVEY-----IKPIQ-----	462
tr Q156A2 Q156A2_CARAU	CVAVPTCSSEL-----LRPIH-----	457
tr Q90YN8 Q90YN8_DANRE	CVAVPTCPAEL-----LRPIH-----	462
tr Q90WQ5 Q90WQ5_PLAFE	CVENPICPAEL-----VRPIH-----	349
tr B9V416 B9V416_CLUHA	CAAVPTCPAEL-----LKPIH-----	457
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	GVENPNCPAEL-----VKPIH-----	462
tr Q8IU34 Q8IU34_CRAGI	REEGWRRSREISRQEBIVKTLISQESRSQTRNELKSKKRELEDLKREHSK---IKIKQ	580
Pgenr_VTG_cds.comp144315_c0_seqI m50928	ARMQGTGSLDQDQILIEEESLTLIDLIET---LEHVDNQRHQIEELYSTART	560

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tr	Q8UW88	Q8UW88_ORYLA	---	KRLSEAVSKGETEDIILYLKVLGNARHPSSLKSITKIMPIHSTAAASLPITVHI	EAI	519	
tr	Q156A2	Q156A2_CARAU	---	DIAAEATSKNDIPEITLALKVLGNAGHPASLKPIMKLLPGLRTAGTSLRLRVQ	DGI	514	
tr	Q90YN8	Q90YN8_DANRE	---	EIATEATSKNDIPEITLALKVMGNAGHPSSLKPIMKLLPGLRTAANALPIRVQ	DAI	519	
tr	Q90WQ5	Q90WQ5_PLAFE	---	ELAVQALAKGKVEELIVLLKVLGNAGHPASLKPILKLLPGFGSAAANLPLRVQ	DAV	406	
tr	B9V416	B9V416_CLUHA	---	ERAAEAVANADIDEITLLVKVMGNAGHPASLKPIMKILPGFGSAAASLP	IRVQDAI	514	
tr	Q800P0	Q800P0_CORLV	-----			270	
tr	Q800N5	Q800N5_SALTR	-----			270	
tr	Q800N3	Q800N3_SALFO	-----			270	
tr	X5IE94	X5IE94_ONCKE	-----			0	
sp	Q92093	VIT_ONCMY	---	ELAVQAVANSKFEELSMVLKALGNAGHPASIKPITKLLPVFGTAAALPLRVQ	DAV	519	
tr	Q8IU34	Q8IU34_CRAGI		EIVKELQMLMRSTVFPDDKILSFKTIGNAGLWEMIPTIRTYIQD-----	KSQPQVLR	TQAI	635
Pgenr_VTG_cds.comp144315_c0_seqI	m50928			QIIDMVTKLHEKTDTRYKLLALKTMNSLGYDEFYPLLEKLIND-----	MDSPLLHR	MEAI	615

tr	Q8UW88	Q8UW88_ORYLA		MALRNI	AKKEPRMVQELALQLYMDKALDPELRMLSCIVLFETNP	SMALISTLANAVK	SEE	579					
tr	Q156A2	Q156A2_CARAU		LGLRNM	GHKEPKLVQPVALQLVLDRLHPEVRMVACIVLFEAKLS	VAVVSSLAGALK	TET	574					
tr	Q90YN8	Q90YN8_DANRE		LALRNI	AKKEPKLVQPVALQLVLDRLHPEVRMVACIVLFE	TEP	SVALISSLAGALR	TEP	579				
tr	Q90WQ5	Q90WQ5_PLAFE		LALRNI	AKREPKMIQDIAIQLFMGKALHPELRMVSAIVLFE	TKLPMGLVTT	LADALLKEK	466					
tr	B9V416	B9V416_CLUHA		LALRNI	AKREFKFFVQPVALQLFMDKTLHPELRMVACIVLFE	TKPNVALVST	LANALKKET	574					
tr	Q800P0	Q800P0_CORLV		-----	-----	-----	-----	270					
tr	Q800N5	Q800N5_SALTR		-----	-----	-----	-----	270					
tr	Q800N3	Q800N3_SALFO		-----	-----	-----	-----	270					
tr	X5IE94	X5IE94_ONCKE		-----	-----	-----	-----	0					
sp	Q92093	VIT_ONCMY		LALRNI	AKREPRMVQEVAVQLFMDKALHPELRMLACIVLFE	TKPPMGLVIT	LASILKTEK	579					
tr	Q8IU34	Q8IU34_CRAGI		YSLRKL	ARHYPD	DIQTLLPLYFDQSEK	EEVRI	GSYLVMTFT	TEPSRQLLEMVAQSL	HRER	695		
Pgenr_VTG_cds.comp144315_c0_seqI	m50928			TSLQKL	TEYNPD	KVKTL	LLLPLFFDRKQ	PEEMRM	IAYLTS	ILARPSRPELEMI	AKSLE	DEP	675

tr	Q8UW88	Q8UW88_ORYLA	NLQVASFTYSHMKSLSRSASMIHPSVAAACNVAMKILSPKLDRLSLRYSKAVYGEAYSSS	639
tr	Q156A2	Q156A2_CARAU	NMHVVSFAYSHIKSLTRITAPDMAAVSGATNVAIKLSMSQKLDRLSYRFTIVLHLVCHTS	634
tr	Q90YN8	Q90YN8_DANRE	NMHVASFAYSHIKSLTRITAPDMAYVAGANVAIKLMNCKLDRLNYRYSRAFKMDYYTTP	639
tr	Q90WQ5	Q90WQ5_PLAFE	NLQVVSFVXSVMKAMTKNTAPDFTSVA-----	493
tr	B9V416	B9V416_CLUHA	SLQLVSFTYSHIKALS KGNAPDLAP-----GNVAIKILSPKLDRLSYRFSKAIHLDIYRSS	630
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	NMQVASFTYSHMMSLTRSTAPDFASVAAACNVAVKMLSNKFRRLSCHFSQAIHLDAYSNP	639
tr	Q8IU34	Q8IU34_CRAGI	NPHVGT FVYTHLEQMSNS--TYPCLMSWAKNASFAMRFAKFFSPMYHYSRFMHLSGFNEM	753
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		STNVGTLVWTSLVASSNKM PKCDCIKSLARNSTMAMRFAQKSEGGVQHSNMYRSSFDKK	735

tr	Q8UW88	Q8UW88_ORYLA		LMLGAAAAFYINDAATFLPRSVVAKTKAFFVGAADVLEIGVRTDGLQETLLKNPSIS-	698
tr	Q156A2	Q156A2_CARAU		LLVGAGSAYLINDAATILPKAVVSKTRAYLAGAADVDLDIDATTEGIQEALLKSPAAY-	693
tr	Q90YN8	Q90YN8_DANRE		LMIGAAGSAYMINDAATILPRAVVAKARTYLAGAADVVEFGVVRTGGIHEALLKSPAAD-	698
tr	Q90WQ5	Q90WQ5_PLAFE		-----	493
tr	B9V416	B9V416_CLUHA		MMAGAAGSVFIINDGATILPTAVVVKARAYLAGAADVLEVGVRTTEGIQEALLKTRALQ-	689
tr	Q800P0	Q800P0_CORLV		-----	270
tr	Q800N5	Q800N5_SALTR		-----	270
tr	Q800N3	Q800N3_SALFO		-----	270
tr	X5IE94	X5IE94_ONCKE		-----	0
sp	Q92093	VIT_ONCMY		LRIGAAASAFYINDAATLFPRTVVAKARTYFAGAADVLEVGVRTTEGIQEALLKLPPAP-	698
tr	Q8IU34	Q8IU34_CRAGI		HKMGAAAELGLVTTPEEFIPRAGAVNLHTYVFGRSVNFAEIGFNTTEGLQTLVSKLVGPLG	813
Pgenr_VTG	cds.comp144315_c0_seqI	m50928		TRLGHSYEQVLLHSAKERFFPRAFAMQYTATLMGKTVDLFELGYKAKGVDITVDRMYGVLG	795

tr	Q8UW88	Q8UW88_ORYLA	-----																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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tr	Q90WQ5	Q90WQ5_PLAFE	-----	783
tr	B9V416	B9V416_CLUHA	QEIAFANIDKAIVDQAVQLPT---SAHAKLLLDK---ALKA-LQSGISVQAAPLLAA	778
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	QEIAFANIDKSIIDQALQLAN---SPSAHALGRN---ALKA-LLAGATFYVVKPLLAA	786
tr	Q8IU34	Q8IU34_CRAGI	NELQYITLDGTLVDITLLREGKLLSGVSEQDLKTG-----LNVEVHRSTMPL	915
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		QELIYFDLPSSMLGPSLTSSPDGSDGSQPNDLKLTKILPELMNVVISLNRLLKTQKSAPFP	909
tr	Q8UW88	Q8UW88_ORYLA	EVRRILPTAAGIPVELSLYSAAVAAVEIKPTLSPRLPED----FPLPRLLETEIKLET	843
tr	Q156A2	Q156A2_CARAU	EVRRILPTAVGLPMFESLYTAAVAAASVNVKATITPPLPEELET-MTLEQLKKTDIQLQA	840
tr	Q90YN8	Q90YN8_DANRE	EVRRILPTAVGVPMFESWYTAAVAAASVNVQATVTPALPEKLES-MTYEQLKKTVDVQFQA	845
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	EIRRIFFTAVGVPMELSLYSAAVAAATIKVQAIIPTPLPELS-A-VTAAELMKLDIKLLA	836
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	EVRRIFPTAVGLPMELSYTAAVAKAYVNVRAITLTPALPET----FHAAQLLKTNIELHA	842
tr	Q8IU34	Q8IU34_CRAGI	EAEIMIPSECGPLRLKLHGTAAIKVTGKVGVTGMPSEIFEINRPGKQAK-----ELSFNF	970
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		LMSTMLPTETGLPLRFGLDKVAALKIDGDVKFEKEKD-----PNTSEKKFLLSSFDSLL	963
tr	Q8UW88	Q8UW88_ORYLA	EIRPSYAMDTYALMGVNTVPVQAFMVSRKFNSTLPAKISARLDIKEGDFKIEA-----	897
tr	Q156A2	Q156A2_CARAU	EARPSIALQTFAVMGVNTALIQAAVMARGKIRTIAPGKVAARADILKGYVKVEA-----	894
tr	Q90YN8	Q90YN8_DANRE	EARPSVALQTFAVMGVNTAFIQAAVMARGKIRTIAPGKVAARADILKGNVKVEA-----	899
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	EATPSIAVETAVMGINTAFIQAAVMARAKALAVLPAKLEARADIPKLNFKIEV-----	890
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	EVRPSIVMHTFAVMGVNTAFIQAAIMARAKVRTIVPAKFAAQDLANGNFKFEA-----	896
tr	Q8IU34	Q8IU34_CRAGI	ELRPSVLFQLRGEMEMDAEYFKMGVALKTMAHMETPLSLTASANLPKAKFYTKFNIEKLS	1030
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		KFRFGCVFEIRGNMEVDYFKYIRSTLSLQGRVSVSEAPVTLAVNVDTTKSKLLHLHQDEKEF	1023
tr	Q8UW88	Q8UW88_ORYLA	-----LPVTA-----PENITAGSFEIYAVTRNIEEP-----	923
tr	Q156A2	Q156A2_CARAU	-----LPVEV-----PEHIAALSFTLAVVRNIEEP-----	920
tr	Q90YN8	Q90YN8_DANRE	-----LPVEL-----PEHIASASFETYAVVRNIEDH-----	925
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	-----LPVVT-----PEHIAKIRVETLAFARNIEDL-----	916
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	-----FPVSP-----PEHIAAAHIEFFAVARNVEDV-----	922
tr	Q8IU34	Q8IU34_CRAGI	EKIARLEVPSTYTFKEDPSEITKYPLPRETQEISVAKNAKVFPMSEYAGKQTLGLEIKLS	1090
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		Y-PVKMVSRRPSSIEIRMPSDADRYPIPPDVKEIIIDGADVRLFSYDIGKDTLGRKLTVN	1082
tr	Q8UW88	Q8UW88_ORYLA	-----TAEKITPILPNKVLPSSISSQIVSS-----ED-----	949
tr	Q156A2	Q156A2_CARAU	-----SAERIVPLVSELAVQNSQTSAE-Y-----M-----	944
tr	Q90YN8	Q90YN8_DANRE	-----SAERSIPLVPELSLQNSQASYAGD-----L-----	950
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	-----AAERITPMVPVIAAQRMSTDR-----S-----	938
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	-----PAERITPLIPAQQGVARSTQQRDK-----LTSMIAD--	953
tr	Q8IU34	Q8IU34_CRAGI	GQAVVRDFEMDVPYYPMIGKQEMIVTSLSPGTDPOKYVEIQFQLMKRMSQSQQPTSEESS	1150
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		GEMTVSR-DDSCPLPPLNGRQVLYIKYEPL---TFTGLDIQMQRVREVSTKDPSISTV-	1136
tr	Q8UW88	Q8UW88_ORYLA	-----SSSAEISSEIIEED-----VKRKVPFLAKRYCAKYRAIGL	984
tr	Q156A2	Q156A2_CARAU	-----SSSENSNEY-----PGKAPAPYDITICLAVPYIFT	973
tr	Q90YN8	Q90YN8_DANRE	-----SSSMSSVA-----SVRAPAPFDRTLCYAVPYIFT	979
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	-----LSSEISYEAS-SE-----VOP-----QLRA-GTPIHKIICVPAPLLGI	974

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tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	---S A S F A G S L S R S S E I L Y S D L P S N --- F K P --- I I K A I V V H L E E T I C --- V E R L G V	999
tr	Q8IU34	Q8IU34_CRAGI	S S T G L L S W V S S - L I G S D Q S D Q S S P S S S S S S --- S T S P P K D I R --- S K D T S L K D L L E H L	1201
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		S K Q T E P W W L P S - W L S G T S T E E Q S Y S G P D R N K F E K N L D D P N K G F I V L D K T D L S L P Y I K K K F	1195

tr	Q8UW88	Q8UW88_ORYLA	K A C F K V A T E N A A F I R D --- T A F Y R M I G S H N A --- S F S I K	1017
tr	Q156A2	Q156A2_CARAU	K G C V E V H S R N A A F F R N --- T P L F Y I I G Q H S A --- R A T V A	1006
tr	Q90YN8	Q90YN8_DANRE	K G C V E V H S H N A A F I R N --- S T L F Y I I G H H S V --- R A A V A	1012
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	K G C F E L T S S N A A L I K D --- I P L L N L I G E H A A --- L L A V K	1007
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	K A C F E F T S E S A A F I R N --- T L F Y N M I G K H S V --- L I S V K	1032
tr	Q8IU34	Q8IU34_CRAGI	K E S Q S V H P D G S V V T R N N S M G L I F N V I G I D Q S R S I K R H F H I S M A A G M N P S P K T T S I L L R M N	1261
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		E R --- E T E L M K T G V K G M V I R V S D H V --- P Q P K H Q I Q L T T L Y Q S D S S G S Q Q W Y S I E L M	1247

tr	Q8UW88	Q8UW88_ORYLA	P - I E G E E V E R L - E M E V K V	1033
tr	Q156A2	Q156A2_CARAU	R - A E G P A V E R L - E L E V Q V	1022
tr	Q90YN8	Q90YN8_DANRE	R - A E G P A V E R L - E F E V Q V	1028
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	P A - D G P A I E R L - K V E V Q V	1023
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	P S A S E P A I E R L - E F E V Q V	1049
tr	Q8IU34	Q8IU34_CRAGI	R - S P I P T M E T K P W N M D V A V N V N L P S R L A D P S E L L S D A Y Q R E L Q Q I E V Y V R R H G E S D Y H R	1320
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		K - - A P K S D E R M P W K M M T T V K L D L P E T V V K P S F L L D N E Y Q K F I Q D Q I K V I V T E N G K Q T D S L	1305

tr	Q8UW88	Q8UW88_ORYLA	---G A K A A E K I I K I N M K --- D S --- A G T --- V L S K L N	1059
tr	Q156A2	Q156A2_CARAU	---G P R A A E R L L K Q I S L I --- D - E E T A E G K A --- F L L K L K	1052
tr	Q90YN8	Q90YN8_DANRE	---G P R A A E R L V K Q I N I I --- D - D D T P E G Q A --- F L L K L R	1058
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	---G A K A A E K L L K E I N I I --- D - E L S P E G R T --- I I T K L K	1053
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	---G P K A A E K I I K V I T M N --- E E E E A P E G K T --- V L L K L K	1080
tr	Q8IU34	Q8IU34_CRAGI	W I M L E E P R W E S S V L Q R L L S L --- S D T Q E V I D E V M N S E L S K S E E S G T P E D R N I I D L I R K Q K	1377
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		L D - L - G S K F L T K A I K Q L Y K L Q R R D S T D K I I E D V V S H V L E R S V D K D S --- A Q L R D S V Q E Q R	1360

tr	Q8UW88	Q8UW88_ORYLA	K I L T S N L N R T S S S S --- S S S S S S S S S K H S S K S S S S S S S S	1096
tr	Q156A2	Q156A2_CARAU	G I L E T E D K N R N S S E --- S S S S S S - R S S S S R S S S - S -	1082
tr	Q90YN8	Q90YN8_DANRE	E I L D T E A K N A P V S S --- E S S S S R N S R S S S R S T S --- T S	1091
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	K I L E P A L K S S S S S S --- S S L L S S L F S S S S ---	1079
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	0
sp	Q92093	VIT_ONCMY	K I L L P D L K N G T R A S --- S S S S S S S S S S R S S S S R --- S R	1113
tr	Q8IU34	Q8IU34_CRAGI	Q I L K E A R K I W Q R S Y D S L R V Q D I K A K L S S L I K R --- S E S V R K D L E K D S A S V S K S - E K S D A	1432
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		K L L K E T D K L K Q L S E P R K L K S Q L E L L K K I L L K T K L V S E T V S K N L D V I P W K Q Q K P - E D - S V	1418

tr	Q8UW88	Q8UW88_ORYLA	S R P S --- G S S S S N S S S S S S S S N S S S K S S S S R R S ---	1128
tr	Q156A2	Q156A2_CARAU	----- S S S R S S ---	1088
tr	Q90YN8	Q90YN8_DANRE	A S S --- S L R S S S S S ---	1102
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	----- S S S S Y S ---	1085
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N3_SALFO	-----	270

sp Q92093 VIT_ONCMY	SRK-----SESSSSS-----	1124
tr Q8IU34 Q8IU34_CRAGI	LRKYCALLQQLIDQRLDEAVRSSRSLSSKERQDIAKSLESSKESLRKILQQQ-----	1485
Pgenr_VTG_cds.comp144315_c0_seqI m50928	MVLYVVSRTQLKKKLRKIVEKLHPLLTTNEKLDLESKLKEQKQSLDDIRMKQNTLSLAK	1478
tr Q8UW88 Q8UW88_ORYLA	-----	1128
tr Q156A2 Q156A2_CARAU	-----	1088
tr Q90YN8 Q90YN8_DANRE	-----	1102
tr Q90WQ5 Q90WQ5_PLAFE	-----	493
tr B9V416 B9V416_CLUHA	-----	1085
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	-----	1124
tr Q8IU34 Q8IU34_CRAGI	-----	1485
Pgenr_VTG_cds.comp144315_c0_seqI m50928	QSTEEQKSRIEMEPKERSLQRQLLDIEQILISVSMERKNGKPPFPSNKEKTYEIEKYLNVK	1538
tr Q8UW88 Q8UW88_ORYLA	-----SSSSSS-----RLSSS	1139
tr Q156A2 Q156A2_CARAU	-----STSSSS-----	1094
tr Q90YN8 Q90YN8_DANRE	-----SQSSSS-----	1108
tr Q90WQ5 Q90WQ5_PLAFE	-----	493
tr B9V416 B9V416_CLUHA	-----SSMSKV-----	1091
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	-----SSSSRI-----	1130
tr Q8IU34 Q8IU34_CRAGI	----HRSPSKVDSS-----IHHLALFKSILHRSVKVILKKLNLRTQNKKINPSNN	1532
Pgenr_VTG_cds.comp144315_c0_seqI m50928	IEKTKKKVKDEMDERLLQKVKIDKMLRVKLLLEVLLHQKLTVLDIE-DKLLYQDKKQKP---	1594
tr Q8UW88 Q8UW88_ORYLA	RSFSNSSRSSAS-----SL-----ASLFSAESSSSRDSARRSM	1173
tr Q156A2 Q156A2_CARAU	-----WWSGTTNK-----	1103
tr Q90YN8 Q90YN8_DANRE	-----SMSSRMSK-----	1117
tr Q90WQ5 Q90WQ5_PLAFE	-----	493
tr B9V416 B9V416_CLUHA	-----SLKEY-----	1096
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	-----SKRDGPDQP-----	1139
tr Q8IU34 Q8IU34_CRAGI	NSLLNSPRTPCLAInLPKCL-VVRLCQSQ-----CQTFCKNRKMWFRIFFGQR	1579
Pgenr_VTG_cds.comp144315_c0_seqI m50928	-LFLRSPYSSYNLDLEYPLKKENIKLKDDLQREFGLARRLAVSVDCETDLSLVSFSSSE	1653
tr Q8UW88 Q8UW88_ORYLA	QKVNSHRFRKGHNQTL-----A-----SEERSRSRSSDSSFIAIY-----	1209
tr Q156A2 Q156A2_CARAU	TATIMEAIGKFHKDRYL-----AHHGS--SKVSSGSSGSSFERIQ-----	1142
tr Q90YN8 Q90YN8_DANRE	TATIIPEPRFKFHKDRYL-----AHHSA--TKDTSGSAASAFEQMQ-----	1156
tr Q90WQ5 Q90WQ5_PLAFE	-----	493
tr B9V416 B9V416_CLUHA	-----PFKKFHKDQYL-----VSQRISAQNLRSSGSSASSFEAIY-----	1131
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	YNPNDRKFKKNHKDSQS-----TSNVISRSKSSASSFHAIIY-----	1175
tr Q8IU34 Q8IU34_CRAGI	NQRD-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI m50928	DQQQMDTLQKLKINQLRMLELLRTKSHPSKETETDLP TLDSVKETVHLIKESHEKIKDIVE	1713
tr Q8UW88 Q8UW88_ORYLA	--AKNELLD--ERSV-AVVV-----TVRAVKA-NKEDPGYQV	1240
tr Q156A2 Q156A2_CARAU	--KQAKFIG--NSVSPVFAV-----IARAVRV-DHKLLGYQL	1174
tr Q90YN8 Q90YN8_DANRE	--KQNRFLG--NDIPPVFAI-----IARAVRA-DQKLLGYQL	1188
tr Q90WQ5 Q90WQ5_PLAFE	-----	493
tr B9V416 B9V416_CLUHA	--KQTKFLG--NAVAPAVVV-----ILRAVRA-DQKLLGYQA	1163
tr Q800P0 Q800P0_CORLV	-----	270
tr Q800N5 Q800N5_SALTR	-----	270
tr Q800N3 Q800N3_SALFO	-----	270
tr X5IE94 X5IE94_ONCKE	-----	0
sp Q92093 VIT_ONCMY	FLG--NKLAPKVII-----LFRLVRA-DHKIEGYQV	1207
tr Q8IU34 Q8IU34_CRAGI	-----	1583

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tr	Q8UW88	Q8UW88_ORYLA	AV--YVDK-----PNARLQIILFPLS-G-----	1260
tr	Q156A2	Q156A2_CARAU	AA--YFDK-----PTARVQIVVSSIAEN-----	1195
tr	Q90YN8	Q90YN8_DANRE	AA--YFDK-----PTARVQLIVSSIAEN-----	1209
tr	Q90WQ5	Q90WQ5_PLAFE	-----YLDK-----ANSRVQTIISALAET-----	493
tr	B9V416	B9V416_CLUHA	-----YLDK-----ANSRVQTIISALAET-----	1184
tr	Q800P0	Q800P0_CORLV	-----YLDK-----ANSRVQTIISALAET-----	270
tr	Q800N5	Q800N5_SALTR	-----YLDK-----ANSRVQTIISALAET-----	270
tr	Q800N3	Q800N3_SALFO	-----YLDK-----ANSRVQTIISALAET-----	270
tr	X5IE94	X5IE94_ONCKE	TA--YLNK-----ATSRQLQMIMAALDEN-----	49
sp	Q92093	VIT_ONCMY	TA--YLNK-----ATSRQLQIIMAALDEN-----	1228
tr	Q8IU34	Q8IU34_CRAGI	-----YLDK-----ANSRVQTIISALAET-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		LKREVFDLKENTIKELKKIEHLLTMKDDNKDMERSPTLTLPKEDNELPSRERTLRKPRSLP	1833

tr	Q8UW88	Q8UW88_ORYLA	-----SNWKL-----CADGVLLSKHKV-----	1277
tr	Q156A2	Q156A2_CARAU	-----DNLKI-----CVDSVLLSKHKM-----	1212
tr	Q90YN8	Q90YN8_DANRE	-----DNMKI-----CADGALLSKHKV-----	1226
tr	Q90WQ5	Q90WQ5_PLAFE	-----SNWKL-----CADGVLLSKHKV-----	493
tr	B9V416	B9V416_CLUHA	-----DNWKL-----CADGGLLSKHKV-----	1201
tr	Q800P0	Q800P0_CORLV	-----SNWKL-----CADGVLLSKHKV-----	270
tr	Q800N5	Q800N5_SALTR	-----SNWKL-----CADGVLLSKHKV-----	270
tr	Q800N3	Q800N3_SALFO	-----SNWKL-----CADGVLLSKHKV-----	270
tr	X5IE94	X5IE94_ONCKE	-----DNWKL-----CADGVLLSKHKV-----	66
sp	Q92093	VIT_ONCMY	-----DNWKL-----CADGVLLSKHKV-----	1245
tr	Q8IU34	Q8IU34_CRAGI	-----SNWKL-----CADGVLLSKHKV-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		VSTLLKKALKVQTKQLQMKAEIEKLSMVLDPVQYRDTGMLTLRQIKQKQIVYDVIGKAID	1893

tr	Q8UW88	Q8UW88_ORYLA	-----SNWKL-----CADGVLLSKHKV-----	1277
tr	Q156A2	Q156A2_CARAU	-----DNLKI-----CVDSVLLSKHKM-----	1212
tr	Q90YN8	Q90YN8_DANRE	-----DNMKI-----CADGALLSKHKV-----	1226
tr	Q90WQ5	Q90WQ5_PLAFE	-----SNWKL-----CADGVLLSKHKV-----	493
tr	B9V416	B9V416_CLUHA	-----DNWKL-----CADGGLLSKHKV-----	1201
tr	Q800P0	Q800P0_CORLV	-----SNWKL-----CADGVLLSKHKV-----	270
tr	Q800N5	Q800N5_SALTR	-----SNWKL-----CADGVLLSKHKV-----	270
tr	Q800N3	Q800N3_SALFO	-----SNWKL-----CADGVLLSKHKV-----	270
tr	X5IE94	X5IE94_ONCKE	-----DNWKL-----CADGVLLSKHKV-----	66
sp	Q92093	VIT_ONCMY	-----DNWKL-----CADGVLLSKHKV-----	1245
tr	Q8IU34	Q8IU34_CRAGI	-----SNWKL-----CADGVLLSKHKV-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		VQDELEELNKALQEKMEDTPEDKSVRDLIKVVDDRQDELKKTIKLKFEDTVEHNSRMDNSL	1953

tr	Q8UW88	Q8UW88_ORYLA	-----SNWKL-----CADGVLLSKHKV-----	1277
tr	Q156A2	Q156A2_CARAU	-----DNLKI-----CVDSVLLSKHKM-----	1212
tr	Q90YN8	Q90YN8_DANRE	-----DNMKI-----CADGALLSKHKV-----	1226
tr	Q90WQ5	Q90WQ5_PLAFE	-----SNWKL-----CADGVLLSKHKV-----	493
tr	B9V416	B9V416_CLUHA	-----DNWKL-----CADGGLLSKHKV-----	1201
tr	Q800P0	Q800P0_CORLV	-----SNWKL-----CADGVLLSKHKV-----	270
tr	Q800N5	Q800N5_SALTR	-----SNWKL-----CADGVLLSKHKV-----	270
tr	Q800N3	Q800N3_SALFO	-----SNWKL-----CADGVLLSKHKV-----	270
tr	X5IE94	X5IE94_ONCKE	-----DNWKL-----CADGVLLSKHKV-----	66
sp	Q92093	VIT_ONCMY	-----DNWKL-----CADGVLLSKHKV-----	1245
tr	Q8IU34	Q8IU34_CRAGI	-----SNWKL-----CADGVLLSKHKV-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		VVPLEKQLQKLDRIEQQQLKVQKTKERFDQLREAVDSDSKRTLPKYPKNLPSRSSMEMPN	2013

tr	Q8UW88	Q8UW88_ORYLA	-----TAKIAWGAECKQYSTMITGETGLVSSSPAARLRMSWEKLPSYI-----	1320
tr	Q156A2	Q156A2_CARAU	-----TAKLAWGPECQYAVTAKAEAGVLGEFPAARLELEWERLPITV-----	1255
tr	Q90YN8	Q90YN8_DANRE	-----TGKFSWGAECKQYAVFAKAEAGVLGEFPAARLEVEWERLPIIV-----	1269
tr	Q90WQ5	Q90WQ5_PLAFE	-----TAKIAWGAECKQYSTMITGETGLVSSSPAARLRMSWEKLPSYI-----	493
tr	B9V416	B9V416_CLUHA	-----MAKVAFGAECQEFATILKAEAGLLGASPAARLEVEVWKIPAIV-----	1244
tr	Q800P0	Q800P0_CORLV	-----TAKIAWGAECKQYSTMITGETGLVSSSPAARLRMSWEKLPSYI-----	270
tr	Q800N5	Q800N5_SALTR	-----TAKIAWGAECKQYSTMITGETGLVSSSPAARLRMSWEKLPSYI-----	270
tr	Q800N3	Q800N3_SALFO	-----TAKIAWGAECKQYSTMITGETGLVSSSPAARLRMSWEKLPSYI-----	270
tr	X5IE94	X5IE94_ONCKE	-----TAKIAWGAECKDYNTFITAETGLVGSPAVRLRLSWDKLPKVPKA-----	111
sp	Q92093	VIT_ONCMY	-----TAKIAWGAECKDYNTFITAETGLVGSPAVRLRLSWDKLPKVPKA-----	1290
tr	Q8IU34	Q8IU34_CRAGI	-----TAKIAWGAECKQYSTMITGETGLVSSSPAARLRMSWEKLPSYI-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		GRRIFMKDLRGVINTAYGPDGETP---KKVEIRLFGKKSLS--QLFWELDQTEFSPKQDEL	2068

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tr	Q156A2	Q156A2_CARAU	-TSY-----AKKMSKH-----IPMAAF--	1271
tr	Q90YN8	Q90YN8_DANRE	-TTY-----AKKLGKH-----ILTAAY--	1285
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	-TTY-----ATRLAKY-----IPGVAL--	1260
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	VWRY-----VRIVSEF-----IPGYIP--	128
sp	Q92093	VIT_ONCMY	VWRY-----VRIVSEF-----IPGYIP--	1307
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		MRKYLQERREPNDAAVAGYEMIADELNTYRHLYLLCIYEDSLPVEVRALFWRMQEYMKYR	2128

tr	Q8UW88	Q8UW88_ORYLA	---LADLIKAKSTNSTRQLSFTVVAE-SEKSIELIAKTPRRTFYNMTLHLP--ITLPLQE	1389
tr	Q156A2	Q156A2_CARAU	---QAGFRLERVNTNSEKEIEITAALP-TQSLNVIARIPEMTLSRMGIPLP--YAIPINP	1325
tr	Q90YN8	Q90YN8_DANRE	---DTGFRFERATNSEKEIELTAALP-SQSLNIIARIPBITMSKRDIYLP--VAVPINP	1339
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	---MAGITVSKAKNIEKELELTVAIP-PERTVDVIVKPLPLMTLSKLALPLP--IALPIGA	1314
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	YYLADLVPMQKDRNSEKQIQCTVVAT-SERTLDVILKTPKMTLYKLGVNLP--CSLPIES	185
sp	Q92093	VIT_ONCMY	YYLADLVPMQKDKNNEKQIQFTVVAT-SERTLDVILKTPKMTLYKLGVNLP--CSLPFES	1364
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		LYDRTSLRMPDETNNKNEIQILTETIKRDNKWADVEIKTPYETMKMHNLRTPQLCKLATVP	2188

tr	Q8UW88	Q8UW88_ORYLA	IKSLT--PFEEVIDKVHYVFAKAVAAECSLSNNTIKTFNNRRYKNKI-PESCYQVLAQDC	1446
tr	Q156A2	Q156A2_CARAU	DGSFSIQIDEDIHSAIQKIKEE-----	1348
tr	Q90YN8	Q90YN8_DANRE	DGTFSIETYEDFLAWIQYIKEE-----	1362
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	DAVIRAIPEDNILDQLHFLYAEATSAQCSMVRDTLTTFNNRRLKNEM-PLSCSQVWAQDC	1373
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	MTDLSP-FDDNIVNKHILFSEV-----	207
sp	Q92093	VIT_ONCMY	MTDLSP-FDDNIVNKHILFSEVNAVKCSMVRDTLTTFNNKKYKINM-PLSCYQVLAQDC	1422
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		NT---VSF---EHHVIKSLRTRKLPATCELSKNRIKMFGRKTYEIDMKPKPCTKVLAMDC	2242

tr	Q8UW88	Q8UW88_ORYLA	TEELKFMVLQM--YYATKQNH---LNVKIADIDIDLYPKSESEVHVKNVNGMEIPRT--SLPY	1500
tr	Q156A2	Q156A2_CARAU	-----	1348
tr	Q90YN8	Q90YN8_DANRE	-----	1362
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	TSELKFMVLLKKDELSEQNH---INVKIADMDVDLFPPTGSDVLVKVNGMGVPIS--SLPY	1428
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	207
sp	Q92093	VIT_ONCMY	TTELKFMVLLKKDHASEQNH---INVKISDIDVDLYTEDHGIVIVKNEMEISND--NLPY	1477
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		SPSNKFAITSSPHSQSQSKTKVTVLTVKTKKKVEIVPDPDEPKMTVKVNDEPVEFKDEIITK	2302

tr	Q8UW88	Q8UW88_ORYLA	QHPTASIEIRENEEGVSV-FASSHGLHEVYVNKTSWRIKIADWMKGTTCGLCGKADGEVR	1559
tr	Q156A2	Q156A2_CARAU	-----	1348
tr	Q90YN8	Q90YN8_DANRE	-----	1362
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	KHPSGSIQIRQKAQGLVL-HAPSLGLQEVYFSKDTWRVNVVDWMKGQTTCGLCGKADGEIK	1487
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	207
sp	Q92093	VIT_ONCMY	KDPSGSIKIDRKKGVSLS-YAPSHGLQEVYFDKYSWKIKVVDWMKGQTTCGLCGKADGENR	1536
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		DSDSEILKIRKLDGGQLMVTIPQLSVI-AITDGEHTSITVGSFYWSKVCGVCGHLGDQDS	2361

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tr	B9V416	B9V416_CLUHA	QEYSTPSGYQTKSPASFAHSWVLPAESCRDSTQCR-LKHESVKLE-----KQM	1534
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	207
sp	Q92093	VIT_ONCMY	QEYRTPSGRLTKSSVSFAHSWVLPDSCRDASECL-MKLESVKLE-----KQV	1583
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		NSLQGPQKVLYPSPEAFVSTYLLPDDQCQDKSIQSQYNVPDIRRESKHHVHPKERTNIIKH	2421
tr	Q8UW88	Q8UW88_ORYLA	NVHGQDSTCFSEVPVLRCLPGCSPVKTTSVNVGFKCFAADS---SR-----DLSNIF	1655
tr	Q156A2	Q156A2_CARAU	-----	1348
tr	Q90YN8	Q90YN8_DANRE	-----	1362
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	IVDGGESKCYSEVPVLRCLPGCLPVKTMPTVIGFHCLPTGSS---SV-----DLSNIS	1584
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	207
sp	Q92093	VIT_ONCMY	IVDDRESKCYSEVPVLRCLPGCLPVRTTPITIGFHCLPVDNLRSE-----GLSSIIY	1636
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		RMNGIQRTCFSKTPVKSCPSSSRSEGTETRLVSYICLRSSSRMAQSLIRLAQTRVLDVVR	2481
tr	Q8UW88	Q8UW88_ORYLA	NESVDLRDSTEAHLACSCSAQCS	1678
tr	Q156A2	Q156A2_CARAU	-----	1348
tr	Q90YN8	Q90YN8_DANRE	-----	1362
tr	Q90WQ5	Q90WQ5_PLAFE	-----	493
tr	B9V416	B9V416_CLUHA	GKSVDLRETAFAHMACQCNTRCI	1607
tr	Q800P0	Q800P0_CORLV	-----	270
tr	Q800N5	Q800N5_SALTR	-----	270
tr	Q800N3	Q800N3_SALFO	-----	270
tr	X5IE94	X5IE94_ONCKE	-----	207
sp	Q92093	VIT_ONCMY	EKSVDLMEKAFAHVACRCSEQCM	1659
tr	Q8IU34	Q8IU34_CRAGI	-----	1583
Pgenr_VTG_cds.comp144315_c0_seqI	m50928		TNFSDLNEYIREPKVCKLE----	2500

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