

consensus						
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....		0
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....		0
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....		0
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....		0
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....		0
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	MADPCPSSTDVSVSVIDSCPMNSSEWNQRALLKNCMYPQTCFRPLEYHCL	50	0
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	.....		0
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	.....		0
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	.....		0
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	.....		0
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....		0
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	.....		0
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	.....		0
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....		0
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....		0
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....		0
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....		0
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	.....		0
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	.....MTTLKMEKNIFICTTFGVSD	21	0
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	.....		0
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	.....		0
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	.....		0
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica	.....		0
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....MTCVCVLLLICALILQKGNVNMTRKSLQVQLGYRFQ	37	0
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	.....		0
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....		0
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....		0
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....		0
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....		0
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....		0
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....		0
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....		0
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....		0
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....		0
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....		0
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	.....		0

consensus						
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....MAETQESAS	9
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....MAETQESAS	9
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	0
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	0
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....	0
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	.....MPSTDKNTNRWTSAVVAFICMVICLTVVFIGILYFLNYKRRHT	44
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	LNPYGNESLEVCAPNTWLAEDFCPVFNKQQRILEQFDCTSLISDCPRRQ	100	
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	.....MVTYSKYGIFAMESIETFLRHLGQERFIEIFLDNELDLDL	40
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	.....MVTYSKYGIFAMESIETFLRHLGQERFIEIFLDNELDLDL	40
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	.....MVTYSKYGIFAMESIETFLRHLGQERFIEIFLDNELDLDL	40
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	.....MVTYSKYGIFAMESIETFLRHLGQERFIEIFLDNELDLDL	40
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....MVTYSKYGIFAMESIETFLRHLGQERFIEIFLDNELDLDL	40
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	.....MVTYSKYGIFAMESIETFLRHLGQERFIEIFLDNELDLDL	40
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	.....MVTYSKYGIFAMESIETFLRHLGQERFIEIFLDNELDLDL	40
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....MESIETFLRHLGQERFIEIFLDNELDLDL	29
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....MESIETFLRHLGQERFIEIFLDNELDLDL	29
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....MESIETFLRHLGQERFIEIFLDNELDLDL	29
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....MESIETFLRHLGQERFIEIFLDNELDLDL	29
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	.....MESIETFLRHLGQERFIEIFLDNELDLDL	29
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	.....MESFLKSIGKERHLDAFNKNEITLDL	26
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	LYDIESLYHSFLLTFCEIKMEKKTIESFLKSIGLETYIGKFKGEDIEMET	71	
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	.....MERGTFAFFKDIEMEYCIHKFRNKGIDVER	31
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	.....MEYETIKQFLEDIGCERHINLFIENEIGLEL	31
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	.....	0
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	.....	0
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica	.....	0
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	IYPVDVCPKNKVDFDTAAKNRNCPEGESRYLCAPDKNLTNLIIEFCTDRPPS	87	
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	.....	0
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....MAASSEL	7
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....MAASSEL	7
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	.....MKAMDHYRITVCLVLITFPNVMSKM	25
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	.....MKAMDHYRITVCLVLITFPNVMSKM	25
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	.....MKVMDHYRIIACLVLIASPNVMSKR	25
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....MLKKEKVMDDLKITFFLVIVFPLISSPM	29
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	.....MDHLKITIFLVIVFPLISSPM	22
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	.....MDHLKITIFLVIVFPLISSPM	22

consensus						
XP 022296317.1	GIMAP	4-like	Crassostrea virginica			0
XP 022302183.1	GIMAP	4-like	Crassostrea virginica			0
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	LELDNTTEKQTTTFQDEENMP		29
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	LELDNTTEKQTTTFQDEENMP		29
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....MP		2
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....		0
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....		0
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	NDNDDVEEQKAFIKKIHGQA		64
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	YNSRSILDYKGCRLRELHGLTTPLANYTSGTPHDTMDDNLLWLAPIIIIF		150
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		64
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		64
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		64
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		64
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		64
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		64
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		64
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		53
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		53
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		53
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		53
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	LKSLSEDELKETLKELN.....LPLGPRM		53
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	LKTLSENLEKTLTLLN.....LNVGTFM		50
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	LIDL PDDL NKILEELK.....LNLGTRL		95
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	LIDLPGDYVNSLLTEFH.....VDATTQL		55
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	LKSLSEKNLKEILKEIG.....LTVGIRM		55
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	.....MIP....		3
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	.....MIP....		3
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	MGFMVVICFSAIGLYFK.....STT....		20
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	MVSREDGKVGYRFHESG.....NAY....		20
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	MVSREDGKVGYRFHESG.....NAY....		20
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	MASKEDGKE..VSEDRR.....NFY....		18
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica					0
XP 022298533.1	GIMAP	4-like,	partial Crassostrea virginica	.....		0
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	LYGPVPACLEINRVFQCFEAEESCKERISNGSTPDNGSNAILIFAIYCAF		137
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....		0
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	.....		0
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	DF.....		9
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	DF.....		9
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	HCHDNKGRDKDGYCTKNSI.....		44
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	HCHDNKGRDKDGYCTKNSK.....		44
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	DYHDDN.....		31
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	DCQDGNDEKEEGYCSTKSI.....		48
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	DCQDGNDEKEEGYCSTKSI.....		48
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	DCQDGNDEEEEGYCSTKSI.....		48
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	DCQDGNDEEEEGYCSTKSI.....		48
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	DCQDGNDEEEEGYCSTKSI.....		48
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	DCQDGNDEEEEGYCSTKSI.....		48
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	DCQDGNDEEEEGYCSTKSI.....		48
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	DCQDGNDEKEEGYCSTKSI.....		48
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	DCQYGNDEEKEEYECSTNPI.....		41
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	DCQYGNDEEKEEYECSTNPI.....		41

consensus						
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....AGS...NTDKKID	39
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....AGS...NTDKKID	39
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....AGS...NTDKKID	12
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	0
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....	0
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	.....MDCRFNSTDKVNE	77
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	AIILITFIFVYYCWRKGSQKNELEDFQMQUIRDGDGNNSLHPPEEPLLGELN	200	
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	114	
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	KILKGVQSFKGE..DVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	112	
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQA.....VQKVKALVGDFE	101	
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQ.....VQKVKALVGDFE	100	
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSS..QVQKVKALVGDFE	112	
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQ.AVQKVKALVGDFE	113	
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	KILKGVQSFKGE..DVTEEQRSSQALDVTEQQRSSQ.AVQKVKALVGDFE	111	
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	103	
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	103	
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	103	
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	103	
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQ.AVQKVKALVGDFE	102	
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	SIIDAVETLKIKG.....AVNEVVKPIGNNE	76	
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	KIKKELKKISPEK.....SSYSTASQ.....	116	
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	IINYEIYKR.....	64	
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	KIQQTLDMMKTE.....KTSSQAAQNTCSSH	82	
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	.....	3
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	.....	3
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	.....	20
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	.....	20
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	.....	20
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	.....	18
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	...MASNYWLCHGCTHSNEHGRKKCVHCGDNNRSRQSDSIWPCPSCTFM	46	
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	...MASNYWLCHGCTHSNEHGRKKCVHCGDNNRSRQSDSIWPCPSCTFM	46	
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	...MASNYWLCHGCTHSNEHGRKKCVQCGDNNRSRHDSDIWPCPSCTFM	46	
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	.....MQVSQRR.....NQSTRKLEISIC.....	19
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	...MDS..WTCSRCTLINEGHRSRCDACLSPKGHRENITISNAST...	40	
XP 022298533.1	GIMAP	4-like,	partial Crassostrea virginica	.....	0
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	LTVMFVIGTLLWIYRKGENQKEAEKTEKTVLSIQSEHRPVAEDKDKITK	187	
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....	0
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	.....	0
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	9
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	9
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	.....	44
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	.....	44
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	.....	31
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	48
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	48
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	48
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	48
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	48
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	48
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	48
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....	48
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	.....	41
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	.....	41

consensus				* * * * ! * * * ! ! !			
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	.....MGCGASKSFQIERE	VRLVLV	GKRGSGKS	28
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	.....MGCGASKSFQIERE	VRLVLV	GKRGSGKS	28
XP 022303805.1	GIMAP	4-like isoform X3	Crassostrea virginica	IDKDEENMPAGSNTDKKIDIDKGFCNWDLNSSTENE	IRLVLL	LKGTGTGKS	89
XP 022303806.1	GIMAP	4-like isoform X3	Crassostrea virginica	IDKDEENMPAGSNTDKKIDIDKGFCNWDLNSSTENE	IRLVLL	LKGTGTGKS	89
XP 022304626.1	GIMAP	4-like isoform X1	Crassostrea virginica	IEKDEENMPAGSNTDKKIDIEKGFCNWDLNSSTENE	IRLVLL	LKGTGTGKS	62
XP 022304627.1	GIMAP	4-like isoform X2	Crassostrea virginica	.....MPAGSNTDKKIDIEKGFCNWDLNSSTENE	IRLVLL	LKGTGTGKS	43
XP 022304628.1	GIMAP	4-like isoform X3	Crassostrea virginica	.....MKTEIPSPSRFCNWDLNSSTENE	IRLVLL	LKGTGTGKS	37
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	SYIGGENIPGESNTDEKTEFGNASCTLDADSYTEN	ELRLVLL	GGTTGAGKS	127
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	.....MGCNSSKSVSLEKSK.....KEE	IRLVLL	LKGTGSGKS	32
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	.....MGCKSSKRRPREEIQN.....MEE	IRLVLL	LKGTGSGKS	33
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	ERKDADIKKANNTDGTSSSTGHTEDGGPCLVYIKYE	IRLVLF	GGGKSGKS	250
XP 022299405.1	GIMAP	7-like isoform X1	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	161
XP 022299409.1	GIMAP	7-like isoform X4	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	159
XP 022299416.1	GIMAP	7-like isoform X8	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	148
XP 022299418.1	GIMAP	7-like isoform X9	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	147
XP 022299408.1	GIMAP	7-like isoform X3	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	159
XP 022299407.1	GIMAP	7-like isoform X2	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	160
XP 022299410.1	GIMAP	7-like isoform X5	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	158
XP 022299411.1	GIMAP	7-like isoform X6	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	150
XP 022299412.1	GIMAP	7-like isoform X6	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	150
XP 022299413.1	GIMAP	7-like isoform X6	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	150
XP 022299414.1	GIMAP	7-like isoform X6	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	150
XP 022299415.1	GIMAP	7-like isoform X7	Crassostrea virginica	KISTTQRKEACPSSHFEKTENRFSFDKYT...YKEE	IRLVLL	LKGTGSGKS	149
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	IIDGRMEISSPKDVMGREKQEMWDFSEVCP...AERE	VRLVLL	LKGTGSGKS	124
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	.....F...YDEE	IRIVLL	LKGTGCGKS	135
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	.....KLTLR	IRIVLL	LKGTGSGKS	81
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	FVPGREAKSQSMSEKTSADDSCSMPDSRS..IPQE	VRIVLL	LKGTGCGKS	130
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	.....IDRE	IRIVLL	LKGTGSGKS	21
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	.....IDRE	VRLVLL	LKGTGSGKS	21
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	.....MWRE	IRLVLL	LKGTGCGKS	38
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	.....MKQE	IRLVLL	LKGTGCGKS	18
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	.....MKKE	IRLVLL	LKGTGCGKS	18
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	.....MEKE	IRLVLL	LKGTGCGKS	18
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	.....FDKE	IRLVLL	LKGTGCGKS	38
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	.....FDKE	IRLVLL	LKGTGCGKS	38
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	.....IDKE	IRIVLL	LKGTGCGKS	36
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	NEGNKSKCGACGSHKGGGGGYRSRGKSRYGKGIDNE	VRIVLL	LKGTGSGKS	96
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	NEGNKSKCGACGSHKGGGGGYRSYGKSRYGKGIDNE	VRIVLL	LKGTGSGKS	96
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	NEGNKSKCGACGSHKGGGGGHGSRGKSRYGKGIDNE	VRIVLL	LKGTGSGKS	96
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	.....IGIDKE	VRIVLL	LKGTGSGKS	39
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	.....HRNNGEE	VRIAL	LKGTGSGKS	61
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica	.....KEV	IRIVL	LKGTGSGKS	16
XP 022297620.1	GIMAP	7-like isoform X3	Crassostrea virginica	NTDDQATSIEVGKGQMKDNAEKHNGEDTNLNSRCSIMR	IVLL	LKGTGCGKS	237
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....MCSNLR	IRIVLL	LKGTGSGKS	18
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	.....METLQDNGE	FRVLVLL	LKGTGSGKS	23
XP 022287294.1	GIMAP	4-like isoform X1	Crassostrea virginica	.....NNEVR	ILL	LKGTGTGKS	26
XP 022287295.1	GIMAP	4-like isoform X1	Crassostrea virginica	.....NNEVR	ILL	LKGTGTGKS	26
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	.....DSSNN	ERRILL	LKGTGVGKS	64
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	.....DSSNN	ERRILL	LKGTGVGKS	64
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	.....DFNNN	ERRILL	LKGTGVGKS	51
XP 022295273.1	GIMAP	4-like isoform X1	Crassostrea virginica	.....AINSNE	IRILL	LKGTGVGKS	68
XP 022295274.1	GIMAP	4-like isoform X1	Crassostrea virginica	.....AINSNE	IRILL	LKGTGVGKS	68
XP 022295275.1	GIMAP	4-like isoform X2	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	68
XP 022295276.1	GIMAP	4-like isoform X2	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	68
XP 022295277.1	GIMAP	4-like isoform X2	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	68
XP 022295278.1	GIMAP	4-like isoform X2	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	68
XP 022295279.1	GIMAP	4-like isoform X2	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	68
XP 022295280.1	GIMAP	4-like isoform X3	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	68
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	61
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	.....AINNDE	VRILL	LKGTGVGKS	61

consensus				***!****	* * * * *	*****	***	*****	***			
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	ATTNTILG	.PARVRPTLPKIS	YDIESEKRYAVR	FNRLVSI	IVEMSDI	FVKE	77		
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	ATTNTILG	.PATVRPTLPKIS	YDIESEKKYAIR	FNRLVSI	IVEMSDI	FDKE	77		
XP 022303805.1	GIMAP	4-like isoform X3	Crassostrea virginica	ATGNSILG	.KRVFASSMS	PASVTSKCSQSHTTR	FGKKIIV	VDTPGI	YDTN	138		
XP 022303806.1	GIMAP	4-like isoform X3	Crassostrea virginica	ATGNSILG	.KRVFASSMS	PASVTSKCSQSHTTR	FGKKIIV	VDTPGI	YDTN	138		
XP 022304626.1	GIMAP	4-like isoform X1	Crassostrea virginica	ATGNSILG	.ERVFASSMS	PASVTSKCSQSHTTR	FGKKIIV	VDTPGI	YDTN	111		
XP 022304627.1	GIMAP	4-like isoform X2	Crassostrea virginica	ATGNSILG	.ERVFASSMS	PASVTSKCSQSHTTR	FGKKIIV	VDTPGI	YDTN	92		
XP 022304628.1	GIMAP	4-like isoform X3	Crassostrea virginica	ATGNSILG	.ERVFASSMS	PASVTSKCSQSHTTR	FGKKIIV	VDTPGI	YDTN	86		
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	ATGNSILG	.KKAFVSSMS	SATGASTYYYQSHNTR	VRQKIV	VDTPGI	SDTN	176		
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.FTKFSSKLSA	ISSETSVCSLSIVCR	FNKKII	IVDTPGI	CDTD	81		
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.IKKFKESELS	GKSETKMC	SQWSAIR	FNKKVL	VIDTPGV	FDTD	82	
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	ATGNSILG	.SNAFESMPS	GNVSVNRVCS	SMKTSV	VRFNKKV	IVDTPGI	FYST	299	
XP 022299405.1	GIMAP	7-like isoform X1	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	210	
XP 022299409.1	GIMAP	7-like isoform X4	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	208	
XP 022299416.1	GIMAP	7-like isoform X8	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	197	
XP 022299418.1	GIMAP	7-like isoform X9	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	196	
XP 022299408.1	GIMAP	7-like isoform X3	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	208	
XP 022299407.1	GIMAP	7-like isoform X2	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	209	
XP 022299410.1	GIMAP	7-like isoform X5	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	207	
XP 022299411.1	GIMAP	7-like isoform X6	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	199	
XP 022299412.1	GIMAP	7-like isoform X6	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	199	
XP 022299413.1	GIMAP	7-like isoform X6	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	199	
XP 022299414.1	GIMAP	7-like isoform X6	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	199	
XP 022299415.1	GIMAP	7-like isoform X7	Crassostrea virginica	ATGNTILG	.KYNFESTFS	GSSVTRVCS	SKKFSIR	FGYKLL	VVDTPGI	FDTT	198	
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	ASGNSILG	.LQAFKSNLS	GISITR	TC	SQKFANR	FRNKI	IVDTPGI	FDTE	173
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	ATGNSIFG	.KRRFISHSS	ASSVTRT	CCFKTE	FRFNKKI	IVDTPGI	FFDTK	184	
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	ATGNSIIG	.SAQFKSSAS	GHPLTST	CSFQSAD	RFGKEI	VVDTPGL	FDTK	130	
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	TTGNSILK	.TINFETSVLAG	SCTQICTL	REGVIF	DKKVV	LIDTPGI	FDTK	179	
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.LKRFNSRLS	GSSITR	ICSQNSA	VRFRK	KIIVDTPGI	FDTK	70	
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	ATGNSILG	.FKRFNSRLS	GSSITR	ICSQNSA	VRFRK	KIIVDTPGI	FDTK	70	
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.SERFRTMIS	GSSVTHVCS	QNSVDR	FRNRK	IVDTPGI	FDTE	87	
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.SKKFLTMIS	GSSVTHVCS	QNFAYR	FRDRK	IVDTPGI	FDTE	67	
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.SEKFRTMIS	GSSVTHVCL	QNSVNR	FRNRK	IVDTPGI	FDTE	67	
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.SEKFRSMIS	GSSVTHVCS	QNFAYR	FRNRK	IVDTPGI	FDTE	67	
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	ATGNTIFG	.SVKFQSKLS	GISVTHVCS	QDYTIR	FRS	KKIIVDTPGI	FDTS	87	
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	ATGNTIFG	.SVKFQSKLS	GISVTHVCS	QDYTIR	FRS	KKIIVDTPGI	FDTS	87	
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	ATGNTIFG	.CEKFQAKLS	GSSVTHVCS	QNSAIR	FRNKKI	IVDTPGI	FDTS	85	
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	ATGNTILN	.GDFFESTTSG	GSSITS	RCTSRHAQ	RFGKEI	QIVDTPGV	FDTN	145	
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	ATGNTILN	.GDFFESTTSG	GSSITS	RCTSRHAQ	RFGKEI	QIVDTPGV	FDTN	145	
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	ATGNTILN	.GDFFESTTSG	GSSITS	RCTSRHAQ	RFGKEI	QIVDTPGV	FDTN	145	
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	ATGNAAILN	.DDFFESTTSG	GSSVTS	RCTSRHAQ	RFGGRNI	QIVDTPGI	FDTN	88	
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	ATGNTILN	.GDYFESTAS	GSSVTS	RCTIKHAQ	RFG	RDIQVVDTPGI	FDTX	110	
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica	ATDNAAILN	.DDL	FESTTSG	GSSVTS	RCTSRHAQ	RFGGRNI	QIVDTPGI	FDTN	65
XP 022297620.1	GIMAP	7-like isoform X3	Crassostrea virginica	ATGNTILG	.ENNVFISTAS	ATSVTALC	ISR	FANRFG	RDIQVVDTPGI	FDTN	286	
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	ATGNTILG	.KKLFASTAS	ASSVTL	CSSRFA	KRFG	RDIQVVDTPGI	FDTS	67	
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	STGNMICG	.QDVFGSRVSE	SVTKCQY	VETSR	FGQTLS	IVDTPGS	FDTT	72	
XP 022287294.1	GIMAP	4-like isoform X1	Crassostrea virginica	TTGNTILG	.RKAFATMLS	ATPVT	SKTEYQ	MERRFG	KKLVVDTPGL	CDP	74	
XP 022287295.1	GIMAP	4-like isoform X1	Crassostrea virginica	TTGNTILG	.RKAFATMLS	ATPVT	SKTEYQ	MERRFG	KKLVVDTPGL	CDP	74	
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	TTGNTILG	.FDAFHTKTS	ATSVTT	TQTQFSE	TERFGR	RLVVVDTPGL	FDDT	112	
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	TTGNTILG	.FDAFD	SKTSTTS	VT	TQTQFSE	TERFGR	RLVVVDTPGL	FDDT	112
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	TTGNTILG	.FPAFKT	DTSATSV	TT	TQTQYNEA	DRFGKRL	IVVDTPGY	LDT	99
XP 022295273.1	GIMAP	4-like isoform X1	Crassostrea virginica	TTGNTILG	.FRAFGTKVS	ASSVTT	TQTQYNE	TERFGR	KRLVVVDTPGL	FDDT	116	
XP 022295274.1	GIMAP	4-like isoform X1	Crassostrea virginica	TTGNTILG	.FRAFGTKVS	ASSVTT	TQTQYNE	TERFGR	KRLVVVDTPGL	FDDT	116	
XP 022295275.1	GIMAP	4-like isoform X2	Crassostrea virginica	TTGNTILG	.FRAFDTKVS	ASSVTT	TQTQYNE	TD	RFGKRL	VVVDTPGL	FDDT	116
XP 022295276.1	GIMAP	4-like isoform X2	Crassostrea virginica	TTGNTILG	.FRAFDTKVS	ASSVTT	TQTQYNE	TD	RFGKRL	VVVDTPGL	FDDT	116
XP 022295277.1	GIMAP	4-like isoform X2	Crassostrea virginica	TTGNTILG	.FRAFDTKVS	ASSVTT	TQTQYNE	TD	RFGKRL	VVVDTPGL	FDDT	116
XP 022295278.1	GIMAP	4-like isoform X2	Crassostrea virginica	TTGNTILG	.FRAFDTKVS	ASSVTT	TQTQYNE	TD	RFGKRL	VVVDTPGL	FDDT	116
XP 022295279.1	GIMAP	4-like isoform X2	Crassostrea virginica	TTGNTILG	.FRAFDTKVS	ASSVTT	TQTQYNE	TD	RFGKRL	VVVDTPGL	FDDT	116
XP 022295280.1	GIMAP	4-like isoform X3	Crassostrea virginica	TTGNTILG	.FRAFDTKVS	ASSVTT	TQTQYNE	TD	RFGKRL	VVVDTPGL	FDDT	116
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	TTGNTILG	.FHA	FDTKVS	ASSVTT	TKTQYNE	TERFGR	KRLVVVDTPGL	FDDT	109
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	TTGNTILG	.FHA	FDTKVS	ASSVTT	TKTQYNE	TERFGR	KRLVVVDTPGL	FDDT	109

consensus				** ** *										*****										*****										*****									
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	ENSEQFLDDMF	KCICLS	SPGP	FAFV	VFV	FN	G	T	K	V	110																												
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	ENSEQFLDDMF	KCICLS	SPGP	FAFV	VFV	FN	G	T	K	V	110																												
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	RTKKQINE	EIQRC	IGIS	SPGP	HGFI	IFV	LS	.	PLR	170																													
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	RTKKQINE	EIQRC	IGIS	SPGP	HGFI	IFV	LS	.	PLR	170																													
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	RTKKQINE	EIQRC	IGIS	SPGP	HGFI	IFV	LS	.	PLR	143																													
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	RTKKQINE	EIQRC	IGIS	SPGP	HGFI	IFV	LS	.	PLR	124																													
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	RTKKQINE	EIQRC	IGIS	SPGP	HGFI	IFV	LS	.	PLR	118																													
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	RTKNQINE	VIQRS	IGISA	PGPH	VVFI	IFV	LS	.	SLR	208																													
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	K.....	KKTNDVIQ	LEISK	ICMT	SPGP	HAFI	ILV	ISIT	SR	116																														
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	.....	QTNEFTQE	EISK	IGIS	SPGP	HAFI	ITVIN	IANR	115																														
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	.....	KTNEKTEQ	EMYKC	ISMT	YPGP	HAFI	LFVIN	IAVR	332																														
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	243																														
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	241																														
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	230																														
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	229																														
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	241																														
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	242																														
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	240																														
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	232																														
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	232																														
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	232																														
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	232																														
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	.....	QSNEDIQE	EIKKC	VLLT	SPGP	HAFI	ILIL	RLDAR	231																														
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	.....	ETNEKIQE	EIHKC	IGIT	SPGP	HAFI	IMVIS	IANR	206																														
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	.....	QSNKIIQE	EISK	ITLS	SPGP	HAFI	ILVLS	SISR	217																														
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	.....	KTTKKVLN	EISK	IGLS	SPGP	HAFI	IMVLS	VGSD	163																														
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	.....	ESNDEIQE	EILRC	IQLS	SPGP	HAFI	IFVLN	IAIR	212																														
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	.....	QTNEEVQN	EIYKC	IGIT	SPGP	HAFI	ILVLS	LAAR	103																														
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	.....	QTNEEVQN	EIYKC	IGIT	SPGP	HAFI	ILVLS	LAAR	103																														
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	.....	ETNEKVQE	EIYKC	IGIT	SPGP	HAFI	ILVIN	VAER	120																														
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	.....	ETNEKVQE	EIYKC	IGIT	SPGP	HAFI	ILVIN	AAER	100																														
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	.....	ETNEKIQE	EIFKC	IGIT	SPGP	HAFI	ILVIN	AAER	100																														
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	.....	ETNEKVQE	EIYKC	IGIT	SPGP	HAFI	ILVIN	AAER	100																														
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	.....	ESNENVQE	EINKC	IGIT	SPGP	HAFI	ILVLN	IVER	120																														
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	.....	ESNENVQE	EINKC	IGIT	SPGP	HAFI	ILVLN	IVER	120																														
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	.....	ESNEKVQE	EINKC	IGIT	SPGP	HAFI	ILVLN	ITER	118																														
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	IPNDVVQR	EIVKC	IGMT	SPGP	HCFL	LV	.	GLSR	177																														
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	IPNDVVQR	EIVKC	IGMT	SPGP	HCFL	LV	.	GLSR	177																														
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	IPNHVVQR	EIVKC	IGMT	SPGP	HCFL	LV	.	GLSR	177																														
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	KPNDVVQR	EIIKC	IGIT	SPGP	HCFL	LV	.	GLSR	120																														
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	APNDVVQR	EIVKC	IGIT	SPGP	HCFL	LV	.	GLSR	142																														
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica	KPNDVVQR	EIIKC	IGIT	SPGP	HCFL	LV	.	GLSR	97																														
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	TPNDVVQKK	IFHC	IAMT	SPGP	HCFL	LV	.	EVSR	318																														
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	TPNDVVQKK	IFQCV	AMT	SPGP	HCFL	LV	.	EVSR	99																														
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	.....	VSNDEVIM	TEVAR	CLAS	APGP	HVFI	IVV	FNALS	105																														
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	SQSDTKIITE	EISKWY	TLMS	SPGI	HA	ILL	VVK	.	AGR	107																													
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	SQSDTKIITE	EISKWY	TLMS	SPGI	HA	ILL	VVK	.	AGR	107																													
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	TKTKEELK	LEISR	WYALV	SPGI	HA	ILL	VVQ	.	VGR	145																													
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	TKTKEELK	LEISR	WYSIL	SPGI	HA	ILL	VVQ	.	VGR	145																													
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	NMTKNEIEME	ISR	WYSLV	SPGI	HA	ILL	VVR	.	VGR	132																													
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	NRTEQDIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	NRTEQDIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	NRTEQEIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	NRTEQEIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	NRTEQEIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	NRTEQEIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	NRTEQEIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	NRTEQEIL	VEMSKWY	SLV	SPGI	HA	ILL	VVQ	.	VGR	149																													
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	NRTEQEIL	VEISKWY	SLV	SPGV	HA	ILL	VVQ	.	VGR	142																													
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	NRTEQEIL	VEISKWY	SLV	SPGV	HA	ILL	VVQ	.	VGR	142																													

consensus

XP 022296317.1 GIMAP 4-like Crassostrea virginica

XP 022302183.1 GIMAP 4-like Crassostrea virginica

XP 022303805.1 GIMAP 4-like isoform X3 Crassostrea virginica

XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica

XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica

XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica

XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica

XP 022307700.1 GIMAP 4-like Crassostrea virginica

XP 022335699.1 GIMAP 4-like Crassostrea virginica

XP 022297635.1 GIMAP 4-like Crassostrea virginica

XP 022291746.1 GIMAP 4-like Crassostrea virginica

XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica

XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica

XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica

XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica

XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica

XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica

XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica

XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica

XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica

XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica

XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica

XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica

XP 022291053.1 GIMAP 4-like Crassostrea virginica

XP 022304158.1 GIMAP 7-like Crassostrea virginica

XP 022304950.1 GIMAP 7-like Crassostrea virginica

XP 022310198.1 GIMAP 4-like Crassostrea virginica

XP 022296314.1 GIMAP 4-like Crassostrea virginica

XP 022301668.1 GIMAP 4-like Crassostrea virginica

XP 022301131.1 GIMAP 4-like Crassostrea virginica

XP 022301812.1 GIMAP 4-like Crassostrea virginica

XP 022301132.1 GIMAP 4-like Crassostrea virginica

XP 022301145.1 GIMAP 4-like Crassostrea virginica

XP 022301588.1 GIMAP 4-like Crassostrea virginica

XP 022301589.1 GIMAP 4-like Crassostrea virginica

XP 022301590.1 GIMAP 7-like Crassostrea virginica

XP 022296665.1 GIMAP 4-like Crassostrea virginica

XP 022296700.1 GIMAP 4-like Crassostrea virginica

XP 022295827.1 GIMAP 4-like Crassostrea virginica

XP 022301840.1 GIMAP 4-like Crassostrea virginica

XP 022300528.1 LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica

XP 022298533.1 GIMAP 4-like, partial Crassostrea virginica

XP 022297620.1 GIMAP 7-like isoform X3 Crassostrea virginica

XP 022302920.1 GIMAP 4-like Crassostrea virginica

XP 022300251.1 GIMAP 7-like Crassostrea virginica

XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica

XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica

XP 022292452.1 GIMAP 4-like Crassostrea virginica

XP 022292453.1 GIMAP 4-like Crassostrea virginica

XP 022291927.1 GIMAP 4-like Crassostrea virginica

XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica

XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica

XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica

XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica

XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica

XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica

XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica

XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica

XP 022295286.1 GIMAP 4-like Crassostrea virginica

XP 022295287.1 GIMAP 4-like Crassostrea virginica

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YTTEDGRALERFVNTFG..EEIFKFCIVLVTRKDELDKDGILVRDHIK.. 157

YTTEDGRALERFVNTFG..EEIFKFCIVLVTRKDELDKDGILVRDHIK.. 157

FTKEEQQSVENFIEQFG..EQIYEYSFVLFTRGDDLEDENISLFDLLRQ.. 217

FTKEEQQSVENFIEQFG..EQIYEYSFVLFTRGDDLEDENISLFDLLRQ.. 217

FTKEEQQSVENFIEQFG..KQIYEYSFVLFTRGDDLEDEKISLYDLLKQ.. 190

FTKEEQQSVENFIEQFG..KQIYEYSFVLFTRGDDLEDEKISLYDLLKQ.. 171

FTKEEQQSVENFIEQFG..KQIYEYSFVLFTRGDDLEDEKISLYDLLKQ.. 165

FTQEEQQFVENFIEQFG..EQVYEYSIVLFTKGDDLEDENKSLIDLLKQ.. 255

FTDEDKDTVKKHFEKYFG..EELYRYLIVVFTGKQLEARNMSLEEYIQN.. 163

FTEEDMRTVKKHFEKYFG..EEFYRYLIVLFTRKDDLKSGKGLADYIEN.. 162

FTEEEERSFDFVVRQFG..KDILRYVFLVFTRKDELDRNQTNLNDFLKC.. 379

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 290

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 288

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 277

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 276

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 288

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 289

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 287

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 279

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 279

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 279

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 279

FTDEEERSVQHFFVDNFG..QNAYKYFIVLFTRKDELIANKITLSDHIQK.. 278

FTEEEQRTVDHFFVRHFG..ENIYKYFFVLFTRQDELERHNINLHDHIRD.. 253

FTEEEQQTIEQFVNQFG..NDVYKYFIVLFTRKEDLDRDNVSLVEHIRK.. 264

FTDEEKQVIDNFKKQFG..ESIYSYFIVLFTRRDDLDRNQSLDEYIKS.. 210

FTEEEERKSIQHFICYFG..EDIYRYIIVLFTRKNDLDRHNSLEKYEIK.. 259

FTDEEESTVNHFFVRYFG..EKIYKYFIVLFTRKEDLDRKKISIMDYINN.. 151

FTDEEERTIEHFFVRYFG..EKIHRFYFIVLFTRKDDLDRRTISIMDYINDY.. 151

YTTEVERTVEHFFVKYFG..ENVYKYFIVLFSRKDQLDAKNIAIEEYVKG.. 167

YTSEEERTVEHFFVKYFG..ENVYKYFIVLFTRKDQLDAQNITIEKYVWG.. 147

YTSEEERTVEHFFVKYFG..ENVYKYFIVLFTRKDQLDAKNITIEEYVRG.. 147

YTSEDEFTVQHFFVKYFG..GNVYKYFIVLFTRKDQLDAKNVITIEEYVKG.. 147

FTEEEERTVDHFFVKHFG..DDIYKYFIVLFTRKNELDANNTTLREHINS.. 167

FTEEEERTVDHFFVKHFG..DDIYKYFIVLFTRKNELDANNTTLREHINS.. 167

FTEEEERTVDHFFVKHFG..DDIYKYFIVLFTRKEELNASNTALKDHLNS.. 165

FTQEEKECIDHFFVTFYFG..KRVRFYFIVLFTRKDDLDDHGGKTLDDHLRT.. 224

FTQEEKECIDHFFVTFYFG..KRVRFYFIVLFTRKDDLDDHGGKTLDDHLRT.. 224

FTQEEKECIDHFFVTFYFG..KRVRFYFIVLFTRKDDLDDHGGKTLDDHLRT.. 224

FTQEEEDSINHFFVNNFG..EGAFRYFIVLFTRKDDLDDHGGKTLDDHLKT.. 167

FTKEEEDSINHFFVNYFG..EGVFRFYFIVLFTRKDDLDDHGGKTLDDHIKT.. 189

FTQEEEDSISHFFVNNFG..EGAFRYFIVLFTRKDDLDDHGGKTLDDHLKT.. 144

FTKEEKECIDHFICYFG..ENICQYFIIILFTRKDDLDDYDGKTLKDLHGT.. 365

FTNEEKECINHFFVKNVG..ENVYQHSIILFTRKDDLDEHGKTLKDLHRT.. 146

FTKEEEDSISKQFVDHFG..ERVFDYMMVVFTRHDDLVRCTTSASKYISN.. 152

FTDEDQHTVDLFMKVFG..DDLKKYLIVVFADKEQLECNMTVTSYIRTMN 156

FTDEDQHTVDLFMKVFG..DDLKKYLIVVFADKEQLECNMTVTSYIRTMN 156

FTEEEQKTVDFFMAVFG..EELQKYLIVVFTDKDKLEKSNSTVEQYVQTYP 194

FTEEEQKTVEFFMAVFG..EELKKYLIVVFTGKDKLEKSNLTVEQYVQTYP 194

FTEEEQKTVDYFMTVFG..EEVKNYLIVVFTDKDKLVKK..TVEEYVQTYP 179

FTEEEQKTVDFFMKVFG..EDLKDYLIVVFTHKDRLEDENITVDEFVQTM 198

FTEEEQKTVDFFMKVFG..EDLKDYLIVVFTHKDRLEDENITVDEFVQTM 198

FTEEEQKTVDFLMKVFG..EDLKDYLVVVFTHKDRLEDENITVDDFVQTMN 198

FTEEEQKTVDFLMKVFG..EDLKDYLVVVFTHKDRLEDENITVDDFVQTMN 198

FTEEEQKTVDFLMKVFG..EDLKDYLVVVFTHKDRLEDENITVDDFVQTMN 198

FTEEEQKTVDFLMKVFG..EDLKDYLVVVFTHKDRLEDENITVDDFVQTMN 198

FTEEEQKTVDFLMKVFG..EDLKDYLVVVFTHKDRLEDENITVDDFVQTMN 198

FTEEEQKTVDFFMNVFG..EDLKDYLVVFTHKDRLEDENITVDEFVQTM 191

FTEEEQKTVDFFMNVFG..EDLKDYLVVFTHKDRLEDENITVDEFVQTM 191

consensus

XP_022296317.1	GIMAP	4-like	Crassostrea virginica	.....YPENLQKFI	GNCEGGVF	AMSDNI	..RDSDQDKEV	VQKLLNK	195
XP_022302183.1	GIMAP	4-like	Crassostrea virginica	.....YPENLQKFI	GNCEGGVF	AMSDNI	..RDSDQDKEV	VQKLLNK	195
XP_022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....APENLRNFVVK	KCGGR	RTVVFNNKL	..KGDENDQ	QVQYLLDF	255
XP_022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....APENLRNFVVK	KCGGR	RTVVFNNKL	..KGDENDQ	QVQYLLDF	255
XP_022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....APENLRNFVVK	KCGGR	RTVVFNNKL	..KGDENDK	QVQHLLDF	228
XP_022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....APENLRNFVVK	KCGGR	RTVVFNNKL	..KGDENDK	QVQHLLDF	209
XP_022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....APENLRNFVVK	KCGGR	RTVVFNNKL	..KGDENDK	QVQHLLDF	203
XP_022307700.1	GIMAP	4-like	Crassostrea virginica	.....APENLQNF	IKKCGGR	RTLVFNNL	..KGEENDK	QVQCILLNF	293
XP_022335699.1	GIMAP	4-like	Crassostrea virginica	.....SPAELQSL	TKKCEGR	VFALNNMI	..KGSQKINEV	KILLNL	201
XP_022297635.1	GIMAP	4-like	Crassostrea virginica	.....SPNDLKDL	IKKCGDR	RVFAINHL	..SGSKQDNEV	NNLLNL	200
XP_022291746.1	GIMAP	4-like	Crassostrea virginica	.....FPPALILL	IQKCGGR	RAIAFDNTL	..KGEELDT	QVKYLLKE	417
XP_022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	328
XP_022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	326
XP_022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	315
XP_022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	314
XP_022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	326
XP_022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	327
XP_022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	325
XP_022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	317
XP_022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	317
XP_022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	317
XP_022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	317
XP_022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	.....TPIELQTV	IKKCGGR	RVIAFDNRC	..TEKEQSKQV	QELLNT	316
XP_022291053.1	GIMAP	4-like	Crassostrea virginica	.....SPPNLR	LRFIKRC	GGKVFAIDNTL	..AGNRQDQ	VGKLLSE	291
XP_022304158.1	GIMAP	7-like	Crassostrea virginica	.....SPVELINF	IEKCGK	RAVAFDNTL	..KDEASER	QVKELLDL	302
XP_022304950.1	GIMAP	7-like	Crassostrea virginica	.....SPPRLV	KFIEKCG	ARVVAFDNTL	..NGKASDD	QVQDLEL	248
XP_022310198.1	GIMAP	4-like	Crassostrea virginica	.....SDENLK	SFIAKCG	GGGAFAIENTL	..EGGKMDE	QVQELLNR	297
XP_022296314.1	GIMAP	4-like	Crassostrea virginica	.....SPPSLQ	TFVQKCGN	RVIAFDNNL	..EGVEQDE	QVEKLLDL	189
XP_022301668.1	GIMAP	4-like	Crassostrea virginica	.....SPPNLR	RTFVKCGN	RVIAFDNNL	..EGVEQDQ	GVKELLDL	189
XP_022301131.1	GIMAP	4-like	Crassostrea virginica	.....CSPFKL	RRFIEKCGN	RVIAFDNNL	..EGLEQNV	QVKSLLDI	205
XP_022301812.1	GIMAP	4-like	Crassostrea virginica	.....CPSKL	RRFIEKCGN	RVLAFDNNL	..EGLEQSE	QVKRLLDI	185
XP_022301132.1	GIMAP	4-like	Crassostrea virginica	.....CPSKL	QRFIEKCGN	RILAFDNNL	..EGPEQNE	QVKKLLDI	185
XP_022301145.1	GIMAP	4-like	Crassostrea virginica	.....CPYKL	QQFIEKCGN	RVLAFDNNL	..EGLEQNE	QVKGMLDI	185
XP_022301588.1	GIMAP	4-like	Crassostrea virginica	.....CPPKL	QKFIEKCGN	RVIAFENKV	..KGVEQDT	QVKELLKI	205
XP_022301589.1	GIMAP	4-like	Crassostrea virginica	.....CPPKL	QKFIEKCGN	RVIAFENKV	..KGVEQDT	QVKELLKI	205
XP_022301590.1	GIMAP	7-like	Crassostrea virginica	.....CPSKL	QKFIEKCGN	RVLAFENKL	..KGVEQDT	QVKELLHI	203
XP_022296665.1	GIMAP	4-like	Crassostrea virginica	.....VPQSL	KTIISKCD	HRCIAFNNRA	..PSPARHD	QVEDLLEM	262
XP_022296700.1	GIMAP	4-like	Crassostrea virginica	.....VPQSL	KTIISKCD	HRCIAFNNRA	..PSPARHD</		

consensus					***	*	*	*	*	***	*	
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	V I E N V S . K R S S K Y Y S E D M Y R Q A K N	Q I R R E	E I R R						227
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	V I E N V S . K R S S K Y Y S E D M Y R Q A K N	Q I R R E	E I R R						227
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	V S E N V A . K N D G K C Y T N E M Y I E A E K	Y I R K L	E A Q R						287
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	V S E N V A . K N D G K C Y T N E M Y I E A E K	Y I R K L	E A Q R						287
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	V S E N V A . K N D G K C Y T N E M Y I E A E K	Y I R K L	E A Q R						260
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	V S E N V A . K N D G K C Y T N E M Y I E A E K	Y I R K L	E A Q R						241
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	V S E N V A . K N D G K C Y T N E M Y I E A E K	Y I R K L	E A Q R						235
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	V S E N V R . K N D G K Y Y T N E M F I E E E T	H I R N L	E A Q R						325
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	I S E N V A . N N F N E C Y T N D A F K R A E E	E I Q K Q I	K E						233
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	I S E N M V . K N M K A Y Y T N D L Y E K A E R	E I L K E	E M K R						232
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	I Q T N L E . R N G G E C F T G E M Y R D F E E	E I Q K I D	T E K						449
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						360
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						358
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						347
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						346
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						358
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						359
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						357
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						349
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						349
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						349
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						349
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	V L E N V K . A N G G E Y Y T N R M Y I E A E K	D M R K R	E E E R						348
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	I F R N L E . Q N G Y D Y Y T D E M Y Q E A E R K I Q E I E N E M K K R D E E Q R I K E								334
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	I S Q N V A . K N G G R W Y T D Q M F K E A E E	D I K K M	E E K K						334
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	I C K N I Q . N N G D E C Y R D P I F M K A E K	C I Q E M	E N E K						280
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	I S Q N V K . N N R G E C Y T N D M Y K K A E R	E I N K I	E S M K						329
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	I L E N V K . E N G G E F Y K N E L Y V E A E M	K I Q T V	E E K K						221
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	I L E N V R . E N G G E F Y K N E L Y V E A E M	K I Q T V	E E E K						221
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	I L E N V K . R I G D D F Y T N D M Y I E A E K	K I L Q V	E E E K						237
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	I L E N V K . R I G D N F Y T N D M Y T E A E K	K I L L V	E E E K						217
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	I L E N V K . R H G D D F Y T N D M Y I E A E N	K I Q L I	E K E K						217
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	I L E N V K . R I G D N F Y T N D M Y I E A E K	K I L L V	E E E K						217
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	I E K N V S . E N G G R F Y T N E K Y N T A E Q	K I K A I	E E K R						237
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	I E K N V S . E N G G R F Y T N E K Y N T A E Q	K I K A I	E E K R						237
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	I E K N V S . E N G G K F Y T N E M Y I T A E R	E I K A I	E E K R						235
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	I N D I V S . N N H G D C Y T N D V Y S E A E K	V M K Q R	Q Y Q I						294
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	I N D I V S . N N H G D C Y T N D M Y S E A E K	V M K Q R	Q Y Q I						294
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	I N D I V S . N N H G D C Y T N D M Y S E A E K	V M K Q R	Q Y Q I						294
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	I D D M V C . N N H G G H Y T Y N M Y R E A K K	V M K H R	K Y Q E						237
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	I D D I I R . Q N N G R F Y T N E M Y A E A E K	V M K H R	Q Y Q I						259
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica	E K E L L E . L E I . E C I Q K E D N R H S H R	H E R E R	Q R E R						213
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	I D K M V D . Q N N G K F Y T N K M Y T E A E K	I M K Q R	E D Q I						435
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	I D R M V Y . E K D G S Y Y T N N M Y I K G E E	V M K T R	E Q E I						216
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	V E K M I K E N G N I S Y F T N T L Y T E A E K	L M K R E	E E E I						223
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	I D A I G G . P H G D K Y Y S N E Y F K E I E K	C M E E M	E K K						222
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	I D A I G G . P H G D K Y Y S N E Y F K E I E K	C M E E M	E K K						222
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	V E E I S G . R D G S N Y Y S N K V F Q N V E K	L L E E D	R R Q S E E T						267
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	V E E I S G . K D G S N Y Y S N K I F Q N V E K	L L Q E E	R K Q R E K I						267
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	V E E I S G . K D G N N Y Y S N K I F Q V E K	I L Q E E	E R K K T E E I						252
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	T E E I A G . E D G K N Y Y S N E V F R R V Q E	D L E E I	E R K R I K K I						272
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	T E E I A G . E D G K N Y Y S N E V F R R V Q E	D L E E I	E R K R I K K I						272
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	I E E I A G . K D G K N Y Y S N E V F Q R V Q K	V M E E N	E R K						267
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	I E E I A G . K D G K N Y Y S N E V F Q R V Q K	V M E E N	E R K						267
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	I E E I A G . K D G K N Y Y S N E V F Q R V Q K	V M E E N	E R K						267
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	I E E I A G . K D G K N Y Y S N E V F Q R V Q K	V M E E N	E R K						267
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	I E E I A G . K D G K N Y Y S N E V F Q R V Q K	V M E E N	E R K						267
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	I E E I A G . K D G K N Y Y S N E V F Q R V Q K	V M E E N	E R K						267
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	I E E I E G . K D G K N Y Y S N E V F Q R V Q E	V M E E N	E R K						260
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	I E E I E G . K D G K N Y Y S N E V F Q R V Q E	V M E E N	E R K						260

consensus				*		
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	.....	NKEEQEKIKSVIEKHQKELQEMKISEAKVKASNET	262
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	.....	.....NKEEQEKIKSVIEKHQKELQEMKISEAKVKASNET	262
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....	.....KQMKREKKEQEYKKIKEEIEQKYLKAIQAGDEKLK	322
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....	.....KQMKREKKEQEYKKIKEEIEQKYLKAIQAGDEKLK	322
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	.....KQMKREKLEQAYKKIKEEIEQKYLKAIQAGDEKLK	295
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	.....KQMKREKLEQAYKKIKEEIEQKYLKAIQAGDEKLK	276
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....	.....KQMKREKLEQAYKKIKEEIEQKYLKAIQAGDEKLK	270
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	.....	.....KQIKREKTEQENKKIKDEKEQKYLEIEAGDEKLK	360
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	.....	.....REQIEAAKEKELQ.....KLKE	250
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	.....	.....KEQIQKELDRKVR.....ELEE	249
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	.....	.....TKQKEEKRIKEMK.....EIEA	466
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	377
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	375
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	364
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	363
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	375
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	376
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	374
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	366
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	366
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	366
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	366
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	.....	.....LQAAIQQQEKMFK.....ERYQ	365
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	.....	.....MQEIEKRLKQK.....EKLQ	351
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	.....	.....MKETEERKKEELKAIEERIEGKYSRRISEIEKTKLM	369
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	.....	.....MSEMEEVEMRERD..EERKQ.....KIKLA	303
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	.....	.....WQENMKTREREFQIIQEKIVEKYQQKADKEREKLE	364
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	.....	.....VQNEKEKLEEEFKHSE.....RQND	241
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	.....	.....VQNEKEKLEEEFKHSE.....RQND	241
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	.....	.....VQHEKEKLEELKRFD.....QKHE	257
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	.....	.....LQHEREKLEELKRFD.....QKHE	237
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	.....	.....LQPEKEKLVDEELRRFD.....QKHE	237
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	.....	.....LQHEKEKLEEDLKRFD.....QKHE	237
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	.....	.....FREVEEKLVEDFLTSI.....RETK	257
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	.....	.....FREVEEKLVEDFLTSI.....RETK	257
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	.....	.....FREVEEKLVDVFLTSI.....KETK	255
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	.....	.....EKERERNREERKAMKREIEEKYRSESRSRSHYKES	329
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	.....	.....EKERERKREERKAMKREIEEKYRSESRSRSHYKRES	329
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	.....	.....EKDRERKREERKAMEREIEEKYRSESRSRSHYKRES	329
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	.....	.....EKARNREREERKAMEREIEQKYKKQSRSNQKKEQ	272
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	.....	.....ERDRERKREERNAIEREFQKFRSQRESHLDIQS	294
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica	.....	.....EREREREREERER...ERERERRERERERERERE	245
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....	.....EKERNEKCKQDKEKNCELGVSGQKCSDDQELEES	470
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....	.....VKKRREKREQNKKEKNERELRGSQRCSDFEFEEH	251
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	.....	.....MLDQRKKENELSVLRIREEHIEKDRKLKAWMRDI	258
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	.....QMRESRNQIRDYNDVDRDSTRRRIADE.....	250
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	.....QMRESRNQIRDYNDVDRDSTRRRIADE.....	250
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	.....	.....KEKRKRRLYTDEEMMNFVDHARAKTREEVFN..ENFR	302
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	.....	.....KEEQKGRYTDDEEMNLNYPRAKTRKEIF.....	297
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	.....	.....KKKFKEKRFSDDEMIKIVIEARTNIREEVLN..EDFR	287
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	.....EEENREKKYTLSEINALLQSARSES RVHIVN..NNYQ	307
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....	.....EEENREKKYTLSEINALLQSARSES RVHIVN..NNYQ	307
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	.....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN	302
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	.....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN	302
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	.....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN	302
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	.....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN	302
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....	.....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN	302
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....	.....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN	302
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	.....	.....HKKETEENREKKI.....	274
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	.....	.....HKKETEENREKKI.....	274

consensus					
XP 022296317.1	GIMAP	4-like	Crassostrea virginica	REEYEKRLQKMQDEMKETQKASNSGGLVETALNWAVPGAGTFIGNMFR..	310
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	REEYEKRLQKMQDEMKETQKASNSGGLVETALNWAVPGAGTFIGNMFR..	310
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	EVQNKLDQMHNQQEQERAVHLHKMNEELLRQEEEEKRILLKKEQDDKIHKLT	372
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	EVQNKLDQMHNQQEQERAVHLHKMNEELLRQEEEEKRILLKKEQDDKIHKLT	372
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	KVQNKLDQMHNQQEQERAAHLHKMEELMRQEEEEKRILLKQEQDEKIHKLT	345
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	KVQNKLDQMHNQQEQERAAHLHKMEELMRQEEEEKRILLKQEQDEKIHKLT	326
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	KVQNKLDQMHNQQEQERAAHLHKMEELMRQEEEEKRILLKQEQDEKIHKLT	320
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	EVQSELDQMHIQLKKERNKNVPC.....	383
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	EILEKNQGT.....MEE	262
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	KVRRENKGN.....IEM	261
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	KEAEKIR.....EE	475
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	EELNKMK.....EN	386
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	EELNKMK.....EN	384
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	EELNKMK.....EN	373
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	EELNKMK.....EN	372
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	EELNKMK.....EN	384
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	EELNKMK.....EN	385
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	EELNKMK.....EN	383
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	EELNKMK.....EN	375
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	EELNKMK.....EN	375
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	EELNKMK.....EN	375
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	EELNKMK.....EN	375
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	EELNKMK.....EN	374
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	QEIDKINSLTFFELTELKRNQAEREYEVKNL.MKVVDAKEKQISECPGAEN	400
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	QVQNELENLHQSREKEKEVEDLRKNFESF.KKQHEMSSGEERERFQQTL	418
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	KNANETN.....DT	312
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	RIRDQIREQLEKQKMNTDRIVALKNKIEKL.KHELKDSQSDTN...EHL	409
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	QKVEKVQSHLEVLNRKQNNE.....TCQIG..SLVKKIEE	274
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	QKVEKVQSHLEVLNRKQNHE.....TCHIG..SLVKKIEE	274
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	QAIGGINDQVKELSRKQDQE.....EREIG..ALETIIEE	290
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	EAIVGLNDEVKELSRKQDRE.....EREIG..SIEKIIIEK	270
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	EKVGGLNDQLKELSRKQERE.....EREIG..IIEKNIEE	270
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	QAIEGINDEVKELSRKLDRE.....EHAIPDSMDRLRIHE	272
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	QGVKKLATHFEELGVTPKQKCKVNDYDKVDKNVTEKFKGVNTLKNQFEM	307
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	QGVKKLATHFEELGVTPKQKCKVNDYDKVDKNVTEKFKGVNTLKNQFEM	307
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	QDVKKLATQFEFGQTPKQKEKEGDEFNKEEKSVTEKDRRVNTLKNKFER	305
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	ELETRVAELESMDHNGKRSSALEREVLELEDEIESERRQYGTPSSRLLS	379
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	ELETRVAELESMDHNGKRSSALEREVHELEDEIESERRQYGAPSSRLLS	379
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	ELETRVAELESMDHYAKRSSALEREVLELEDEIESERRQYGAPSSRLLS	379
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	S.....	273
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	ALEIRVAELESADTTSK GK.....T	314
XP 022298533.1	GIMAP	4-like,	partial Crassostrea virginica	TFHSVVFIQF.....	256
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	DHHEYEANNIK.....	481
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....	251
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	ERRLLELESQPKAAGDCVP.....	277
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	..ESFG EKILSVVGS.....	263
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	..ESFG EKILSVVGS.....	263
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	LIMKVVATVIPLIASSI.....	319
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	.....	297
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	LIMKVITIAVLPLISSIVGIYFNFDTI.....	313
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	..EDLLTKIFSTVGTV.....	321
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	..EDLLTKIFSTVGTV.....	321
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	..TGLLS DLISTVASG.....	316
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	..TGLLS DLISTVASG.....	316
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	..TGLLS DLISTVASG.....	316
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	..TGLLS DLISTVASG.....	316
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	..TGLLS DLISTVASG.....	316
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	..TGLLS DLISTVASG.....	316
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	274
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	274

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XP 022296317.1	GIMAP	4-like	Crassostrea virginica		310
XP 022302183.1	GIMAP	4-like	Crassostrea virginica		310
XP 022303805.1	GIMAP	4-like isoform X3	Crassostrea virginica	QVHIENQNKIEQERAALKERMENVQEQTDKESKMQUIQKQLTELENKQK	422
XP 022303806.1	GIMAP	4-like isoform X3	Crassostrea virginica	QVHIENQNKIEQERAALKERMENVQEQTDKESKMQUIQKQLTELENKQK	422
XP 022304626.1	GIMAP	4-like isoform X1	Crassostrea virginica	QVHIENQNKMEQERAALIERMKNVQEQTDKESKMQUIQKQLTELEKKQK	395
XP 022304627.1	GIMAP	4-like isoform X2	Crassostrea virginica	QVHIENQNKMEQERAALIERMKNVQEQTDKESKMQUIQKQLTELEKKQK	376
XP 022304628.1	GIMAP	4-like isoform X3	Crassostrea virginica	QVHIENQNKMEQERAALIERMKNVQEQTDKESKMQUIQKQLTELEKKQK	370
XP 022307700.1	GIMAP	4-like	Crassostrea virginica		383
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	NYKKK.....KDEIQEKYEKKLT	280
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	KRKN.....LKAEEYEKMR	275
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	VRKQ.....VREANYESVF	489
XP 022299405.1	GIMAP	7-like isoform X1	Crassostrea virginica	NE.....QEIEK...	393
XP 022299409.1	GIMAP	7-like isoform X4	Crassostrea virginica	NE.....QEIEK...	391
XP 022299416.1	GIMAP	7-like isoform X8	Crassostrea virginica	NE.....QEIEK...	380
XP 022299418.1	GIMAP	7-like isoform X9	Crassostrea virginica	NE.....QEIEK...	379
XP 022299408.1	GIMAP	7-like isoform X3	Crassostrea virginica	NE.....QEIEK...	391
XP 022299407.1	GIMAP	7-like isoform X2	Crassostrea virginica	NE.....QEIEK...	392
XP 022299410.1	GIMAP	7-like isoform X5	Crassostrea virginica	NE.....QEIEK...	390
XP 022299411.1	GIMAP	7-like isoform X6	Crassostrea virginica	NE.....QEIEK...	382
XP 022299412.1	GIMAP	7-like isoform X6	Crassostrea virginica	NE.....QEIEK...	382
XP 022299413.1	GIMAP	7-like isoform X6	Crassostrea virginica	NE.....QEIEK...	382
XP 022299414.1	GIMAP	7-like isoform X6	Crassostrea virginica	NE.....QEIEK...	382
XP 022299415.1	GIMAP	7-like isoform X7	Crassostrea virginica	NE.....QEIEK...	381
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	EEDMQ.....TLDLLRNELAEKDATAKGERKIAEIEKAKNEAEE...	440
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	DSLT.....QTLTATIEAQNE	434
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	ISLD.....QVLKNELEK...	325
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	DELR.....KQLVEEEAEESK	425
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	YERK...LRETTTTQRKEIKLNVDMVRGNLETCKETTSRACEIEENK.	319
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	YERK...LRETTTTQRKEIKLNVDMVRGNLETCKETTSRAREIEENK.	319
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	NESE...MPACKSKQREEIDHEL FVMRRNLHTRREACIERKEEIEKKK.	335
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	NESK...MPACKSTQRKEAEHELAVLRRRLGTHRNTFLERKGEIEKKT.	315
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	NQSK...IPTCKSTQRKEIEHELAIMRRTLKTHREMLVLSGEEIEKKK.	315
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	SHPK...DIDEAEAQAIRLETHRLADRQRCNRPVRAINEKQPDQSSH.	317
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	LKSKEEENEPAYSSIDEIKERKAEVTKRKATQENDFASLERRREKREPRV	357
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	LKSKEEENEPAYSSIDEIKERKAEVTKRKATQENDFASLERRREKREPRV	357
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	LNSKKEENDPAYSSIDEIKRKAETVKRKEAHQNEYALHECQGEEREAR.	354
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	KRKRLEEERSKLGSRKESSEMAEIEDLRNELKRMNQSKSKISKEKDRMYE	429
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	KRKRLEEERSKLGSRKESSEMAEIEELRNELKRMNQSKSKISKEKDRMYE	429
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	KRKRLEEERSKLGSRKESSEMAEIDDLRNELKRMNKKTKKISKEKDRMYE	429
XP 022301840.1	GIMAP	4-like	Crassostrea virginica		273
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	DKRRLKP.....	321
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica		256
XP 022297620.1	GIMAP	7-like isoform X3	Crassostrea virginica		481
XP 022302920.1	GIMAP	4-like	Crassostrea virginica		251
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	...RKSCLPSNRTSLSQRPSLERQVDFLHKELKKIKMTDLTLIEKQQEEI	324
XP 022287294.1	GIMAP	4-like isoform X1	Crassostrea virginica		263
XP 022287295.1	GIMAP	4-like isoform X1	Crassostrea virginica		263
XP 022292452.1	GIMAP	4-like	Crassostrea virginica		319
XP 022292453.1	GIMAP	4-like	Crassostrea virginica		297
XP 022291927.1	GIMAP	4-like	Crassostrea virginica		313
XP 022295273.1	GIMAP	4-like isoform X1	Crassostrea virginica		321
XP 022295274.1	GIMAP	4-like isoform X1	Crassostrea virginica		321
XP 022295275.1	GIMAP	4-like isoform X2	Crassostrea virginica		316
XP 022295276.1	GIMAP	4-like isoform X2	Crassostrea virginica		316
XP 022295277.1	GIMAP	4-like isoform X2	Crassostrea virginica		316
XP 022295278.1	GIMAP	4-like isoform X2	Crassostrea virginica		316
XP 022295279.1	GIMAP	4-like isoform X2	Crassostrea virginica		316
XP 022295280.1	GIMAP	4-like isoform X3	Crassostrea virginica		316
XP 022295286.1	GIMAP	4-like	Crassostrea virginica		274
XP 022295287.1	GIMAP	4-like	Crassostrea virginica		274



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XP 022296317.1	GIMAP	4-like	Crassostrea virginica			310
XP 022302183.1	GIMAP	4-like	Crassostrea virginica			310
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	HAELKHKQDLETVKNTGEQNLTSMKEEYSKQIEKLNQTNTGLQKQFQDKG		472
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	HAELKHKQDLETVKNTGEQNLTSMKEEYSKQIEKLNQTNTGLQKQFQDKG		472
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	HAELKHKQDLETVKNTGEQNITSMKEEYAKQIDKLNQTNTGLQKQFQDKG		445
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	HAELKHKQDLETVKNTGEQNITSMKEEYAKQIDKLNQTNTGLQKQFQDKG		426
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	HAELKHKQDLETVKNTGEQNITSMKEEYAKQIDKLNQTNTGLQKQFQDKG		420
XP 022307700.1	GIMAP	4-like	Crassostrea virginica			383
XP 022335699.1	GIMAP	4-like	Crassostrea virginica			280
XP 022297635.1	GIMAP	4-like	Crassostrea virginica			275
XP 022291746.1	GIMAP	4-like	Crassostrea virginica			489
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica			393
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica			391
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica			380
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica			379
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica			391
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica			392
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica			390
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica			382
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica			382
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica			382
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica			382
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica			381
XP 022291053.1	GIMAP	4-like	Crassostrea virginica			440
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	RTRKIEELQEAKDK	SEE.IYE	454
XP 022304950.1	GIMAP	7-like	Crassostrea virginica		V	326
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	LSQKIKELKKTRDE	SAERIKT	446
XP 022296314.1	GIMAP	4-like	Crassostrea virginica		RNILEIC	326
XP 022301668.1	GIMAP	4-like	Crassostrea virginica		RNIIEIC	326
XP 022301131.1	GIMAP	4-like	Crassostrea virginica		RESLNL	342
XP 022301812.1	GIMAP	4-like	Crassostrea virginica		RISVNLC	322
XP 022301132.1	GIMAP	4-like	Crassostrea virginica		RDSFDLC	322
XP 022301145.1	GIMAP	4-like	Crassostrea virginica		SDTLNLI	324
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	VETYDGKPL	RDSLRLC	373
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	VETYDGKPL	RDSLRLC	373
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	IDVYESTQR	RESLQNC	370
XP 022296665.1	GIMAP	4-like	Crassostrea virginica		Q	430
XP 022296700.1	GIMAP	4-like	Crassostrea virginica		Q	430
XP 022295827.1	GIMAP	4-like	Crassostrea virginica		Q	430
XP 022301840.1	GIMAP	4-like	Crassostrea virginica			273
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica			321
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica			256
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica			481
XP 022302920.1	GIMAP	4-like	Crassostrea virginica			251
XP 022300251.1	GIMAP	7-like	Crassostrea virginica		K	325
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica			263
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica			263
XP 022292452.1	GIMAP	4-like	Crassostrea virginica			319
XP 022292453.1	GIMAP	4-like	Crassostrea virginica			297
XP 022291927.1	GIMAP	4-like	Crassostrea virginica			313
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica			321
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica			321
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica			316
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica			316
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica			316
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica			316
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica			316
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica			316
XP 022295286.1	GIMAP	4-like	Crassostrea virginica			274
XP 022295287.1	GIMAP	4-like	Crassostrea virginica			274

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XP 022296317.1	GIMAP	4-like	Crassostrea virginica	310
XP 022302183.1	GIMAP	4-like	Crassostrea virginica	310
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	TELENLKKIVETSKVEAEKQFHQDLKRENEKQNKAAEEKGTERNEIRQELA	522
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	TELENLKKIVETSKVEAEKQFHQDLKRENEKQNKAAEEKGTERNEIRQELA	522
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	TELENLKKIVEKSKLEAEKQFHQDLKRENEKQNKTEDKGTERNEIRQEIA	495
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	TELENLKKIVEKSKLEAEKQFHQDLKRENEKQNKTEDKGTERNEIRQEIA	476
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	TELENLKKIVEKSKLEAEKQFHQDLKRENEKQNKTEDKGTERNEIRQEIA	470
XP 022307700.1	GIMAP	4-like	Crassostrea virginica	.....	383
XP 022335699.1	GIMAP	4-like	Crassostrea virginica	NVRDDIRKEYANAAIQ...MVSSVGSYVYNAV.....GSVYSYFTGAK	320
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	NVRDGIIRDISTMQLLRDFILGMLGGFLKKILPIPVENKGNKSAIHHPK	325
XP 022291746.1	GIMAP	4-like	Crassostrea virginica	NVFNLSLRGFFS.....SLYHDS.	506
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	437
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	435
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	424
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	423
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	435
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	436
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	434
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	426
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	426
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	426
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	426
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica	KMEEFVKD..QKAKMEEDIERMKR.ENRDISRDMVEENGSSSGLCVIL...	425
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	KNAQIIEK..KQQELEDTRREYDR.KQDDMYREEIRHQIEMQMALPKQIW	487
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	EIRKIQLE..ERERAKLEYTKIEREKARDDVKEYISENGFFSSSLVDFGIK	502
XP 022304950.1	GIMAP	7-like	Crassostrea virginica	DVRAILGP..GRS....YSSFEEKKKIRDNVKDISNNGFCRLMQQCEI.	368
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	KFHMCDD..EIDKAYEHYTEQQKAKYRDEIRKVFAF..WPVEMLKQGIK	492
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	KIQKENRD..RFKRELEEKLAVKRNLFRRDVEE..KEDSP.P.TECTI	372
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	KIQKENRD..RFKRELEEKLAVKRNLFRRDVEE..KQDSPP.TECTI	372
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	KIQHNERE..KFKQQLEDELSFKRIEARENIRKEIEG.KPASKTWSECTV	389
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	KIKHNERE..KFKQQLEGQLNLRKKEVRDDIRKAIEV.KGAYKKWSECTV	369
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	KTQHDERE..KFKHQLDGLNLRREEVREDIRKEIEA.KKPSK...ECII	366
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	RDEFSQPMGPTPIDRTRDKMVKSLVNTRKTRDSRIGSRNDYLMKAQNSF	374
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	HLPGNQGE..EIKRELEEKLRLEKGVKVRDEIRKEIEH.KRRSVWNSCII	420
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	HLPGNQGE..EIKRELEEKLRLEKGVKVRDEIRKEIEH.KRRSVWNSCII	420
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	RLPGHHGE..EIKRELEEKLRVEKGRVRDEIRREIEQ.KRRSMS...CII	414
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	RLEELDRKYSQLQTPRQEVVRQEVESGSGNVGEALLGGIMTIGKLIWKGIQ	480
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	RLEELDRKYSQLQTPRQEVVRQEVESGSGNVGEALLGGIMTIGKLIWKGIQ	480
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	RLEELDRKYNQLQNPRIYEVVRQEVESGSGNVGEALLGGIMTIGKLIWKGIQ	480
XP 022301840.1	GIMAP	4-like	Crassostrea virginica	.....	273
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP	4-like	Crassostrea virginica	.....	321
XP 022298533.1	GIMAP	4-like,	partial Crassostrea virginica	.....	256
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	.....FSARRQAIHELETNSGNITNALWDGLIALGKFYRDFSR	519
XP 022302920.1	GIMAP	4-like	Crassostrea virginica	.....FSPRQQAIELENNLGNITNSLWIAFKAF.....	280
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	KLKERLSKGYHRGNPRSMARKEVSKRNSSFSQMVSRGIIALGKHLTLGLL	375
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....FVRLIAVKAAEFIMRHV	281
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....FVRLIAVKAAEFIMRHV	281
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	.....NLVDSHTFFDSCIYLIKRFGL	340
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	.....SFENPYTVDFADISFIRRYIV	318
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	.....YEAILHYVTCFIPTIIGIYLFNSTIYVDAILYVTRLIE	351
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....ILATGGFITRGIGAALSMVGGWFG	345
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	.....ILATGGFITRGIGAALSMVGGWFG	345
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....LYALGAFVVGAGALLSFVGGWFG	340
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....LYALGAFVVGAGALLSFVGGWFG	340
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....LYALGAFVVGAGALLSFVGGWFG	340
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....LYALGAFVVGAGALLSFVGGWFG	340
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	.....LYALGAFVVGAGALLSFVGGWFG	340
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	.....LYALGAFVVGAGALLSFVGGWFG	340
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	.....GAALSMVGEWFA	286
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	.....GAALSMVGEWFA	286

consensus						
XP 022296317.1	GIMAP	4-like	Crassostrea virginica			310
XP 022302183.1	GIMAP	4-like	Crassostrea virginica			310
XP 022303805.1	GIMAP	4-like	isoform X3 Crassostrea virginica	EDPSKIVRAFNAAGKAVSKAYDKVTSACTIS		553
XP 022303806.1	GIMAP	4-like	isoform X3 Crassostrea virginica	EDPSKIVRAFNAAGKAVSKAYDKVTSACTIS		553
XP 022304626.1	GIMAP	4-like	isoform X1 Crassostrea virginica	EDPSKIVRAFNAAGKFVAEAYDTVTSACTIS		526
XP 022304627.1	GIMAP	4-like	isoform X2 Crassostrea virginica	EDPSKIVRAFNAAGKFVAEAYDTVTSACTIS		507
XP 022304628.1	GIMAP	4-like	isoform X3 Crassostrea virginica	EDPSKIVRAFNAAGKFVAEAYDTVTSACTIS		501
XP 022307700.1	GIMAP	4-like	Crassostrea virginica			383
XP 022335699.1	GIMAP	4-like	Crassostrea virginica			320
XP 022297635.1	GIMAP	4-like	Crassostrea virginica	ITKKFQSKL		334
XP 022291746.1	GIMAP	4-like	Crassostrea virginica			506
XP 022299405.1	GIMAP	7-like	isoform X1 Crassostrea virginica			437
XP 022299409.1	GIMAP	7-like	isoform X4 Crassostrea virginica			435
XP 022299416.1	GIMAP	7-like	isoform X8 Crassostrea virginica			424
XP 022299418.1	GIMAP	7-like	isoform X9 Crassostrea virginica			423
XP 022299408.1	GIMAP	7-like	isoform X3 Crassostrea virginica			435
XP 022299407.1	GIMAP	7-like	isoform X2 Crassostrea virginica			436
XP 022299410.1	GIMAP	7-like	isoform X5 Crassostrea virginica			434
XP 022299411.1	GIMAP	7-like	isoform X6 Crassostrea virginica			426
XP 022299412.1	GIMAP	7-like	isoform X6 Crassostrea virginica			426
XP 022299413.1	GIMAP	7-like	isoform X6 Crassostrea virginica			426
XP 022299414.1	GIMAP	7-like	isoform X6 Crassostrea virginica			426
XP 022299415.1	GIMAP	7-like	isoform X7 Crassostrea virginica			425
XP 022291053.1	GIMAP	4-like	Crassostrea virginica	DTVKSVGGFLKSIFGR		503
XP 022304158.1	GIMAP	7-like	Crassostrea virginica	IGSKLLDLLLSDDTPLP		520
XP 022304950.1	GIMAP	7-like	Crassostrea virginica			368
XP 022310198.1	GIMAP	4-like	Crassostrea virginica	KGIEFLSDIFSK		504
XP 022296314.1	GIMAP	4-like	Crassostrea virginica	L		373
XP 022301668.1	GIMAP	4-like	Crassostrea virginica	L		373
XP 022301131.1	GIMAP	4-like	Crassostrea virginica	L		390
XP 022301812.1	GIMAP	4-like	Crassostrea virginica	L		370
XP 022301132.1	GIMAP	4-like	Crassostrea virginica	L		367
XP 022301145.1	GIMAP	4-like	Crassostrea virginica	IK		376
XP 022301588.1	GIMAP	4-like	Crassostrea virginica	L		421
XP 022301589.1	GIMAP	4-like	Crassostrea virginica	L		421
XP 022301590.1	GIMAP	7-like	Crassostrea virginica	L		415
XP 022296665.1	GIMAP	4-like	Crassostrea virginica	MIF		483
XP 022296700.1	GIMAP	4-like	Crassostrea virginica	MIF		483
XP 022295827.1	GIMAP	4-like	Crassostrea virginica	MII		483
XP 022301840.1	GIMAP	4-like	Crassostrea virginica			273
XP 022300528.1	LOW QUALITY PROTEIN:	GIMAP 4-like	Crassostrea virginica			321
XP 022298533.1	GIMAP	4-like, partial	Crassostrea virginica			256
XP 022297620.1	GIMAP	7-like	isoform X3 Crassostrea virginica	LVLDRYY		526
XP 022302920.1	GIMAP	4-like	Crassostrea virginica			280
XP 022300251.1	GIMAP	7-like	Crassostrea virginica	GLLLL		380
XP 022287294.1	GIMAP	4-like	isoform X1 Crassostrea virginica	DV		283
XP 022287295.1	GIMAP	4-like	isoform X1 Crassostrea virginica	DV		283
XP 022292452.1	GIMAP	4-like	Crassostrea virginica	F		341
XP 022292453.1	GIMAP	4-like	Crassostrea virginica	F		319
XP 022291927.1	GIMAP	4-like	Crassostrea virginica	FFSALWVNLF		361
XP 022295273.1	GIMAP	4-like	isoform X1 Crassostrea virginica	F		346
XP 022295274.1	GIMAP	4-like	isoform X1 Crassostrea virginica	F		346
XP 022295275.1	GIMAP	4-like	isoform X2 Crassostrea virginica	F		341
XP 022295276.1	GIMAP	4-like	isoform X2 Crassostrea virginica	F		341
XP 022295277.1	GIMAP	4-like	isoform X2 Crassostrea virginica	F		341
XP 022295278.1	GIMAP	4-like	isoform X2 Crassostrea virginica	F		341
XP 022295279.1	GIMAP	4-like	isoform X2 Crassostrea virginica	F		341
XP 022295280.1	GIMAP	4-like	isoform X3 Crassostrea virginica	F		341
XP 022295286.1	GIMAP	4-like	Crassostrea virginica	F		287
XP 022295287.1	GIMAP	4-like	Crassostrea virginica	F		287

consensus

XP 022296317.1	GIMAP 4-like	Crassostrea virginica	.....	310
XP 022302183.1	GIMAP 4-like	Crassostrea virginica	.....	310
XP 022303805.1	GIMAP 4-like isoform X3	Crassostrea virginica	.....	553
XP 022303806.1	GIMAP 4-like isoform X3	Crassostrea virginica	.....	553
XP 022304626.1	GIMAP 4-like isoform X1	Crassostrea virginica	.....	526
XP 022304627.1	GIMAP 4-like isoform X2	Crassostrea virginica	.....	507
XP 022304628.1	GIMAP 4-like isoform X3	Crassostrea virginica	.....	501
XP 022307700.1	GIMAP 4-like	Crassostrea virginica	.....	383
XP 022335699.1	GIMAP 4-like	Crassostrea virginica	.....	320
XP 022297635.1	GIMAP 4-like	Crassostrea virginica	.....	334
XP 022291746.1	GIMAP 4-like	Crassostrea virginica	.....	506
XP 022299405.1	GIMAP 7-like isoform X1	Crassostrea virginica	.....	437
XP 022299409.1	GIMAP 7-like isoform X4	Crassostrea virginica	.....	435
XP 022299416.1	GIMAP 7-like isoform X8	Crassostrea virginica	.....	424
XP 022299418.1	GIMAP 7-like isoform X9	Crassostrea virginica	.....	423
XP 022299408.1	GIMAP 7-like isoform X3	Crassostrea virginica	.....	435
XP 022299407.1	GIMAP 7-like isoform X2	Crassostrea virginica	.....	436
XP 022299410.1	GIMAP 7-like isoform X5	Crassostrea virginica	.....	434
XP 022299411.1	GIMAP 7-like isoform X6	Crassostrea virginica	.....	426
XP 022299412.1	GIMAP 7-like isoform X6	Crassostrea virginica	.....	426
XP 022299413.1	GIMAP 7-like isoform X6	Crassostrea virginica	.....	426
XP 022299414.1	GIMAP 7-like isoform X6	Crassostrea virginica	.....	426
XP 022299415.1	GIMAP 7-like isoform X7	Crassostrea virginica	.....	425
XP 022291053.1	GIMAP 4-like	Crassostrea virginica	.....	503
XP 022304158.1	GIMAP 7-like	Crassostrea virginica	.....	520
XP 022304950.1	GIMAP 7-like	Crassostrea virginica	.....	368
XP 022310198.1	GIMAP 4-like	Crassostrea virginica	.....	504
XP 022296314.1	GIMAP 4-like	Crassostrea virginica	.....	373
XP 022301668.1	GIMAP 4-like	Crassostrea virginica	.....	373
XP 022301131.1	GIMAP 4-like	Crassostrea virginica	.....	390
XP 022301812.1	GIMAP 4-like	Crassostrea virginica	.....	370
XP 022301132.1	GIMAP 4-like	Crassostrea virginica	.....	367
XP 022301145.1	GIMAP 4-like	Crassostrea virginica	.....	376
XP 022301588.1	GIMAP 4-like	Crassostrea virginica	.....	421
XP 022301589.1	GIMAP 4-like	Crassostrea virginica	.....	421
XP 022301590.1	GIMAP 7-like	Crassostrea virginica	.....	415
XP 022296665.1	GIMAP 4-like	Crassostrea virginica	.....	483
XP 022296700.1	GIMAP 4-like	Crassostrea virginica	.....	483
XP 022295827.1	GIMAP 4-like	Crassostrea virginica	.....	483
XP 022301840.1	GIMAP 4-like	Crassostrea virginica	.....	273
XP 022300528.1	LOW QUALITY PROTEIN: GIMAP 4-like	Crassostrea virginica	.....	321
XP 022298533.1	GIMAP 4-like, partial	Crassostrea virginica	.....	256
XP 022297620.1	GIMAP 7-like isoform X3	Crassostrea virginica	.....	526
XP 022302920.1	GIMAP 4-like	Crassostrea virginica	.....	280
XP 022300251.1	GIMAP 7-like	Crassostrea virginica	.....	380
XP 022287294.1	GIMAP 4-like isoform X1	Crassostrea virginica	.....	283
XP 022287295.1	GIMAP 4-like isoform X1	Crassostrea virginica	.....	283
XP 022292452.1	GIMAP 4-like	Crassostrea virginica	.....	341
XP 022292453.1	GIMAP 4-like	Crassostrea virginica	.....	319
XP 022291927.1	GIMAP 4-like	Crassostrea virginica	.....	361
XP 022295273.1	GIMAP 4-like isoform X1	Crassostrea virginica	.....	346
XP 022295274.1	GIMAP 4-like isoform X1	Crassostrea virginica	.....	346
XP 022295275.1	GIMAP 4-like isoform X2	Crassostrea virginica	.....	341
XP 022295276.1	GIMAP 4-like isoform X2	Crassostrea virginica	.....	341
XP 022295277.1	GIMAP 4-like isoform X2	Crassostrea virginica	.....	341
XP 022295278.1	GIMAP 4-like isoform X2	Crassostrea virginica	.....	341
XP 022295279.1	GIMAP 4-like isoform X2	Crassostrea virginica	.....	341
XP 022295280.1	GIMAP 4-like isoform X3	Crassostrea virginica	.....	341
XP 022295286.1	GIMAP 4-like	Crassostrea virginica	.....	287
XP 022295287.1	GIMAP 4-like	Crassostrea virginica	.....	287

 non conserved
 $\geq 50\%$ conserved