XP 022295286.1 GIMAP 4-like Crassostrea virginica

consensus		
XP 022296317.1 GIMAP 4-like Crassostrea virginica		0
XP 022302183.1 GIMAP 4-like Crassostrea virginica		Ö
XP 022303805.1 GIMAP 4-like isoform X3 Crassostrea virginica	MAETQESAS	9
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica		9
XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica		Ö
XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica		Ö
XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica		Ö
XP 022307700.1 GIMAP 4-like Crassostrea virginica	MPSTDKNTNRWTSAVVAFICMVICLTVVFIGILIYFLNYKRRHT	44
XP 022335699.1 GIMAP 4-like Crassostrea virginica		0
XP 022297635.1 GIMAP 4-like Crassostrea virginica		Ö
XP 022291746.1 GIMAP 4-like Crassostrea virginica	LNPYGNESLEVCAPNTWLAEDFCPVFNIKQQRILEQFDCTSLISDCPRRQ	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		26
XP 022304158.1 GIMAP 7-like Crassostrea virginica	LYDIESLYHSFLLTFCEIKMEKKTIESFLKSIGLETYIGKFKGEDIEMET	71
XP 022304950.1 GIMAP 7-like Crassostrea virginica		31
XP 022310198.1 GIMAP 4-like Crassostrea virginica		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	IYPVDVCPKNKVDFDTAAKNRNCPGESRYLCAPDKNLTNLIEFCTDRPPS	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		7
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica		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	MLKKEKVMDHLKITFFLVLIVFPLISSPM	29
XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica	MLKKEKVMDHLKITFFLVLIVFPLISSPM	29
XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica	MLKKEKVMDHLKITFFLVLIVFPVISSPM	29
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica	MLKKEKVMDHLKITFFLVLIVFPVISSPM	29
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	MLKKEKVMDHLKITFFLVLIVFPVISSPM	29
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica	MLKKEKVMDHLKITFFLVLIVFPVISSPM	29
XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	MLKKEKVMDHLKITFFLVLIVFPVISSPM	29
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica	MLKKEKVMDHLKITFFLVLIVFPLISSPM	29
XP 022295286.1 GIMAP 4-like Crassostrea virginica	MDHLKITIFLVLIVFPLISSPM	22
YP 022295287 1 CIMAP 4-like Crassostrea virginica	MDHLKITIFLVLIVFPLISSPM	22

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 LELDNTTEKQTTFQDEENMP................. LELDNTTEKQTTFQDEENMP..... XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginicaMP...... 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 NDNDDVEEQKAFIKKIHGQA..... XP 022335699.1 GIMAP 4-like Crassostrea virginica XP 022297635.1 GIMAP 4-like Crassostrea virginica YNSRSILDYKGCLRELHGLTTPLANYTSGTPHDTPMDDNLLWLAPIIIIF XP 022291746.1 GIMAP 4-like Crassostrea virginica 150 XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM 64 LKSLSEDELKETLKELN.....LPLGPRM XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM LKSLSEDELKETLKELN.....LPLGPRM XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM LKSLSEDELKETLKELN.....LPLGPRM XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM LKSLSEDELKETLKELN.....LPLGPRM XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica LKSLSEDELKETLKELN.....LPLGPRM XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica XP 022291053.1 GIMAP 4-like Crassostrea virginica LKTLSRENLEKTLTLLN.....LNVGTFM 50 XP 022304158.1 GIMAP 7-like Crassostrea virginica LIDLPDDLLNKILEELK.....LNLGTRL LIDLPGDYVNSLLTEFH.....VDATTQL XP 022304950.1 GIMAP 7-like Crassostrea virginica XP 022310198.1 GIMAP 4-like Crassostrea virginica LKSLSEKNLKEILKEIG.....LTVGIRM XP 022296314.1 GIMAP 4-like Crassostrea virginica XP 022301668.1 GIMAP 4-like Crassostrea virginica MGFMYVICFSAIGLYFK.....STT.... 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 MVSREDGKVGYRFHESG.....NAY.... 20 MVSREDGKVGYRFHESG.....NAY.... XP 022301589.1 GIMAP 4-like Crassostrea virginica MASKEDGKE..VSEDRR.....NFY.... 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 LYGPVPACLEINRVFQCFEAEESCKERISNGSTPDNGSNAILIFAIYCAF 137 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 DF......... DF......... XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica XP 022292452.1 GIMAP 4-like Crassostrea virginica HCHDNKGRDKDGYCTKNSI...... XP 022292453.1 GIMAP 4-like Crassostrea virginica HCHDNKGRDKDGYCTKNSK................. XP 022291927.1 GIMAP 4-like Crassostrea virginica DYHDDN......... XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica DCQDGNDEKEEGYCSTKSI..... XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica DCQDGNDEKEEGYCSTKSI..... XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica DCQDGNDEEEEGYCSTKSI..... DCQDGNDEEEEGYCSTKSI..... XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica DCQDGNDEEEEGYCSTKSI..... XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica DCQDGNDEEEEGYCSTKSI..... XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica DCQDGNDEEEEGYCSTKSI.................. XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica DCQDGNDEKEEGYCSTKSI....... XP 022295286.1 GIMAP 4-like Crassostrea virginica DCQYGNDEEKEEYCSTNPI.....

DCUAGNDEEKEEAGGANDI

YP 022265287 1 CIMAP A-like Crassostrea virginica

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	AGSNTDKKID	39
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica	AGSNTDKKID	39
XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica	AGSNTDKKID	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	AIILITFIFVYYCWRKGSQKNELEDFQMQIRDGDGNNSLHPEEPLLGELN	200
XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	114
XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica	KILKGVQSFKGEDVTEEQRSSQALDVTEQQRSSQDTVQKVKALVGDFE	112
XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQAVQKVKALVGDFE	101
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQVQKVKALVGDFE	100
XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQVQKVKALVGDFE	112
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	KILKGVQSFKGEALDVTEEQRSSQALDVTEQQRSSQ.AVQKVKALVGDFE	113
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	KILKGVQSFKGEDVTEEQRSSQALDVTEQQRSSQ.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	SIIDAVETLKIKGAVNEVVKPIGNNE	76
XP 022304158.1 GIMAP 7-like Crassostrea virginica	KIKKELKKISPEKSSYSTASQ	116
XP 022304950.1 GIMAP 7-like Crassostrea virginica	IINYEIYKR	64
XP 022310198.1 GIMAP 4-like Crassostrea virginica	KIQQTLDDMKTKEKTSSQAAQNTCSSH	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	MASNYWLCHGCTHSNEHGRKKCVHCGDNNRSRQDSDIWPCPSCTFM	46
XP 022296700.1 GIMAP 4-like Crassostrea virginica	MASNYWLCHGCTHSNEHGRKKCVHCGDNNRSRQDSDIWPCPSCTFM	46
XP 022295827.1 GIMAP 4-like Crassostrea virginica	MASNYWLCHGCTHSNEHGRKKCVQCGDNNRSRHDSDIWPCPSCTFM	46
XP 022301840.1 GIMAP 4-like Crassostrea virginica	NQSTRKLEISIC	19
XP 022300528.1 LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica	MDSWTCSRCTLINEGHRSRCDACLSPKGHRENITISNAST	40
XP 022298533.1 GIMAP 4-like, partial Crassostrea virginica	I TUNEUT ATT I UTVEVARNOVE A EVTEVTU A TOARUE DVA ERVET TV	0
XP 022297620.1 GIMAP 7-like isoform X3 Crassostrea virginica	LTVMFVIGTLLWIYRKGENQKEAEKTEKTVLSIQSEHRPVAEDKDTKITK	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		11
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 41
XP 022295287 1 GTMAP 4-like Crassostrea virginica		41

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Record Company Compa	consensus	<u>*</u> ** * !*** !!!
Record Company Compa	XP 022296317.1 GIMAP 4-like Crassostrea virginica	MGCGASKSFQIERE <mark>V</mark> RLVL <mark>VGKRGSGKS</mark> 28
Record Company Compa	XP 022302183.1 GIMAP 4-like Crassostrea virginica	MGCGASKSFQIEREVRLVLVGKRGSGKS 28
Record Company Compa	XP 022303805.1 GIMAP 4-like isoform X3 Crassostrea virginica	IDKDEENMPAGSNTDKKIDIDKGFCNWDLNSSTENE <mark>IRLVLLGKTGTGKS</mark> 89
### S0 022304607. GCMPA 4-like isoform X2 Crassostrea virginica ### S0 022304609. ICMPA 4-like isoform X3 Crassostrea virginica ### S0 022304609. ICMPA 4-like Crassostrea virginica ### S0 022304609. ICMPA 4-like Crassostrea virginica ### S0 0222304609. ICMPA 4-like S0 022304609. ICMPA 4-like isoform X1 Crassostrea virginica ### S0 0222304609. ICMPA 4-like isoform X1 Crassostrea virginica ### S0 0222304609. ICMPA 7-like isoform X2 Crassostrea virginica ### S0 0222304609. ICMPA 7-like isoform X3 Crassostrea virginica ### S0 0222304609. ICMPA 7-like isoform X3 Crassostrea virginica ### S0 0222304609. ICMPA 7-like isoform X3 Crassostrea virginica ### S0 0222304609. ICMPA 7-like isoform X3 Crassostrea virginica ### W15T1DREACPSSHFERTERREFSFEXT. VKE		IDKDEENMPAGSNTDKKIDIDKGFCNWDLNSSTENEIRLVLLGKTGTGKS 89
### TO 022209408. GRMP 4-like isoform X3 Crassostrea winginica		IEKDEENMPAGSNTDKKIDIEKGFCNWDLNSSTENEIRLVLL <mark>GKTGTGKS</mark> 62
### Decaysorrow of Graph 4-like Crassostrea wignines ### Decaysorrow of Graph 4-like Graph 4-		MPAGSNTDKKIDIEKGFCNWDLNSSTEN <mark>EIRLVLLGKTG</mark> TGKS 43
### 0222946.1 GIAR 4—116 Crassotre virginica		MKTEIPSPSRFCNWDLNSSTENEIRLVLLGKTGTGKS 37
### 0222946.1 GIAR 4—116 Crassotre virginica		SYIGGENIPGESNITDEKTEFGNASCILDADSYTENELRLVLLGTTGAGKS 127
XP 02229146.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 158 XP 02229409.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 158 XP 02229409.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 158 XP 02229409.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 02229409.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 02229401.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.1 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.3 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.3 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.3 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.3 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0222941.3 GIMPA 7-like isoform X Crassostrea virginica KISTIQREAGPSSIFEKTERSFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0223011.3 GIMPA 7-like isoform X Crassostrea virginica FYFGREASSGEREAGRESFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0223011.3 GIMPA 7-like isoform X Crassostrea virginica FYFGREASSGEREAGRESFERYTY TYPE 1.0 1 0 CKR SCMS 159 XP 0223011.3 GIMPA 7-like isoform X Crassostrea virginica FYFGREASSGEREAGRESFERYTY TYPE 1.0 1 0 CKR SCMS 15	XP 022335699.1 GIMAP 4-like Crassostrea virginica	MGCNSSKSVSLEKSKKEEIRLVLLGKTGSGKS 32
XP 02229940.1 GIMP 7-like isoform X1 Crassostrea virginica XISTTQRKEACPSSIFEKTENRSPENTT. YEE 0.00		MGCKSSKRRPREEIQNMEEIRUVLIGKTGSGKS 33
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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 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		ATNNDEVETILITIERTEVERS 68
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XP 022295286.1 GIMAP 4-like Crassostrea virginica		AINNDEVRILLIGKTGVGKS 68
XP 022295287 1 GIMAP 4-like Crassostrea virginica		AINNDEVRILLIGKTGVGKS 61
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consensus	***!**** * * * **** * *** *****
XP 022296317.1 GIMAP 4-like Crassostrea virginica	ATTNTILG.PARVRPTLPKISYDIESEKRYAVRFNRLVSIVEMSDIFVKE 77
XP 022302183.1 GIMAP 4-like Crassostrea virginica	ATTNTILG.PATVRPTLPKISYDIESEKKYAIRFNRLVSIVEMSDIFDKE 77
XP 022303805.1 GIMAP 4-like isoform X3 Crassostrea virginica	ATGNSILG.KRVFASSMSPASVTSKCSQSHTTRFGKKIVIVDTPGIYDTN 138
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica	ATGNSILG.KRVFASSMSPASVTSKCSQSHTTRFGKKIVIVDTPGIYDTN 138
XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica	ATGNSILG.ERVFASSMSPASVTSKCSQSHTTRFGKKIVIVDTPGIYDTN 111
XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica	ATGNSILG.ERVFASSMSPASVTSKCSQSHTTRFGKKIVIVDTPGIYDTN 92
XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica	ATGNSILG.ERVFASSMSPASVTSKCSQSHTTRFGKKIVIVDTPGIYDTN 86
XP 022307700.1 GIMAP 4-like Crassostrea virginica	ATGNSILG.KKAFVSSMSSATGASTYYQSHNTRVRQKIVIVDTPGISDTN 176
XP 022335699.1 GIMAP 4-like Crassostrea virginica	ATGNSILG.KKAFVSSMSSATGASTYYQSHNTRVRQKIVIVDTPGISDTN 176 ATGNTILG.FTKFSSKLSAISETSVCSLSIVCRFNKKIIIVDTPGICDTD 81
XP 022297635.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.IKKFKSELSGKSETKMCSQWSAIRFNKKVLVIDTPGVFDTD 82
	ATGNSILG.SNAFESMPSGNSVNRVCSMKTSVRFNKKVVIVDTPGIFYST 299
XP 022291746.1 GIMAP 4-like Crassostrea virginica	ATGNTILG. KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 210
XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	ATGNSILG.SNAFESMPSGNSVNRVCSMKTSVRFNKKVVIVDTPGIFYST 299 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 210 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 208 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 197
XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTFGIFDTT 197
XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 196
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 196 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 208 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 209
XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTFGIFDTT 209
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 209
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	ATONITIC VANESCREGOSVIRVOSARFSIREGIALLVVDIEGIEDIT 207
XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica	ATGNTILG. KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 199
XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica	ATGNTILG. KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 199
XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 207 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 199 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 199 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 199 ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 199
XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 199
XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 198
XP 022291053.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDTT 198 ASGNSILG.LQAFKSNLSGISITRTCSQKFANRFNRKIIVVDTPGIFDTE 173 ATGNSIFG.KRRFISHSSASSVTRTCCFKTEFRFNKKIVIVDTPGFFDTK 184
XP 022304158.1 GIMAP 7-like Crassostrea virginica	ATGNSIFG.KRRFISHSSASSVTRTCCFKTEFRFNKKIVTVDTPGFFDTK 184
XP 022304950.1 GIMAP 7-like Crassostrea virginica	ATGNSIIG.SAQFKSSASGHPLTSTCSFQSADRFGKEIVVVDTPGLFDTK 130
XP 022310198.1 GIMAP 4-like Crassostrea virginica	TTGNSILK.TINFETSVLAGSCTQICTLREGVIFDKKVVLIDTPGIFDTK 179
XP 022296314.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.LKRFNSRLSGSSITRICSQNSAVRFKRKIVIVDTPGIFDTK 70
XP 022301668.1 GIMAP 4-like Crassostrea virginica	ATGNSILG.FKRFNSSLSGSSITRICSQNSAVRFKRKIVIVDTPGIFDTK 70 ATGNTILG.SERFRTMISGSSVTHVCSQNSVDRFNRKIVIVDTPGIFDTE 87
XP 022301131.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.SERFRTMISGSSVTHVCSQNSVDRFNRKIVIVDTPGIFDTE 87
XP 022301812.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.SKKFLTMISGSSVTHVCSQNFAYRFDRKIVIVDTPGIFDTE 67
XP 022301132.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.SEKFRTMISGSSVTHVCLQNSVNRFNRKIVIVDTPGIFDTE 67
XP 022301145.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.SEKFRSMISGSSVTHVCSQNFAYRFNRKIVIVDTPGIFDTE 67
XP 022301588.1 GIMAP 4-like Crassostrea virginica	ATGNTIFG.SVKFQSKLSGISVTHVCSQDYTIRFSKKIVIVDTPGIFDTS 87
XP 022301589.1 GIMAP 4-like Crassostrea virginica	ATGNTIFG.SVKFQSKLSGISVTHVCSQDYTIRFSKKIVIVDTPGIFDTS 87
XP 022301590.1 GIMAP 7-like Crassostrea virginica	ATGNTIFG.CEKFQAKLSGSSVTHVCSQNSAIRFNKKIVIVDTPGIFDTS 85
XP 022296665.1 GIMAP 4-like Crassostrea virginica	ATGNTILN.GDFFESTTSGSSTTSRCTSRHAQRFGKEIQIVDTPGVFDTN 145 ATGNTILN.GDFFESTTSGSS <mark>ITSRC</mark> TSRHAQRFGKEIQIVDTPGVFDTN 145
XP 022296700.1 GIMAP 4-like Crassostrea virginica	ATGNTILN.GDFFESTTSGSSITSRCTSRHAQRFGKEIQIVDTPGVFDTN 145
XP 022295827.1 GIMAP 4-like Crassostrea virginica	ATGNTILN.GDFFESTTSGSSITSRCTSRHAQRFGKEIQIVDTPGVFDTN 145
XP 022301840.1 GIMAP 4-like Crassostrea virginica	ATGNAILN.DDFFESTTSGSSVTSRCTSRHAQRFGRNIQIVDTPGIFDTN 88
XP 022300528.1 LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica	ATGNAILN.DDFFESTTSGSSVTSRCTSRHAQRFGRNIQIVDTPGIFDTN 88 ATGNTILN.GDYFESTASGSSVTSRCTIKHAQRFGRDIQVVDTPGIFDTX 110 ATDNAILN.DDLFESTTSGSSVTSRCTSRHAQRFGRNIQIVDTPGIFDTN 65
XP 022298533.1 GIMAP 4-like, partial Crassostrea virginica	ATDNAILN.DDLFESTTSGSSVTSRCTSRHAQRFGRNIQTVDTPGIFDTN 65
XP 022297620.1 GIMAP 7-like isoform X3 Crassostrea virginica	ATGNTILG.ENVFISTASATSVTALCISRFANRFGRDIQVVDTPGIFDTN 286
XP 022302920.1 GIMAP 4-like Crassostrea virginica	ATGNTILG.KKLFASTASASSVTALCSSRFAKRFGRDIQVVDTPGIFDTS 67
XP 022300251.1 GIMAP 7-like Crassostrea virginica	STGNMICG.QDVFGSRVSESSVTKTCQYVETSRFGQTLSIVDTPGSFDTT 72
XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica	TTGNTILG.RKAFATMLSATPVTSKTEYQMERRFGKKLVVVDTPGLCDP. 74
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica	TTGNTILG.RKAFATMLSATPVTSKTEYQMERRFGKKLVVVDTPGLCDP. 74
XP 022292452.1 GIMAP 4-like Crassostrea virginica	TTGNTILG.FDAFHTKTSATSVTTQTQFSETERFGRRLVVVDTPGLFDT. 112
XP 022292453.1 GIMAP 4-like Crassostrea virginica	TTGNTILG.FDAFDSKTSTTSVTTQTQFSETERFGRRLVVVDTPGLFDT. 112
XP 022291927.1 GIMAP 4-like Crassostrea virginica	TTGNTILG.FPAFKTDTSATSVTTQTQYNEADRFGKRLIVVDTPGYLDT. 99
XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica	TTGNTILG.FRAFGTKVSASSVTTQTQYNETERFGKRLVVVDTPGLFDT. 116
XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica	TTGNTILG.FRAFGTKVSASSVTTQTQYNETERFGKRLVVVDTPGLFDT. 116
XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica	TTGNTILG.FRAFDTKV <mark>SASSVT</mark> TQTQYNETD <mark>RFG</mark> KRLV <mark>VVDTPGL</mark> FDT. 116
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica	TTGNTILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT. 116
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	TTGNTILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT. 116
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica	TTGNTILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT. 116
XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	TTGNTILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT. 116
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica	TTGNTILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT. 116
XP 022295286.1 GIMAP 4-like Crassostrea virginica	TTGNTILG.FHAFDTKVSASSVTTKTQYNETERFGKRLVVVDTPGLFDT. 109
XP 022295287 1 GIMAP 4-like Crassostrea virginica	TTCNTILC FHAFDTKVSASSVTTKTOVNETERECKRLVVVDTPGLEDT 109

consensus	** ** **** *
XP 022296317.1 GIMAP 4-like Crassostrea virginica	ENSEQFLDDMFKCICLSSPGPHAFVFVFNGTKV 110
XP 022302183.1 GIMAP 4-like Crassostrea virginica	ENSEQFLDDMFKCICLSSPGPHAFVFVFNGTKV 110
XP 022303805.1 GIMAP 4-like isoform X3 Crassostrea virginica	RTKKQINE <mark>EIQRC</mark> IGIS <mark>SPGPHGFIFV</mark> LS.PLR 170
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica	RTKKQINEEIQRCIGISSPGPHGFIFVLS.PLR 170
XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica	
XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica	RTKKQINE <mark>EIQRC</mark> IGIS <mark>SPGPH</mark> GF <mark>IFV</mark> LS.PLR 124
XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica	RTKKQINE <mark>EIQRC</mark> IGIS <mark>SPGPH</mark> GF <mark>IFV</mark> LS.PLR 118
XP 022307700.1 GIMAP 4-like Crassostrea virginica	RTKNQINEV <mark>IQRS</mark> IGIS <mark>APGPH</mark> VF <mark>IFV</mark> LS.SLR 208
XP 022335699.1 GIMAP 4-like Crassostrea virginica	KKKTNDVIQL <mark>EISKC</mark> ICMT <mark>SPGPHA</mark> FILVISITSR 116
XP 022297635.1 GIMAP 4-like Crassostrea virginica	
XP 022291746.1 GIMAP 4-like Crassostrea virginica	KTNEKTEQ <mark>EMYKC</mark> ISMTYPGPHAFLFVINIAVR 332
XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	QSNEDIQEETKKCVLLTSPGPHAFILTLRLDAR 243
XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 241
XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 230
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 229
XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 241
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 242
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 240
XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232
XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232
XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232
XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232
XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica	QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 231
XP 022291053.1 GIMAP 4-like Crassostrea virginica	ETNEKIQQEIHKCIGITSPGPHAFIMVISIANR 206
XP 022304158.1 GIMAP 7-like Crassostrea virginica	QSNKIIQDEISKCITLSSPGPHAFILVLSISNR 217
XP 022304950.1 GIMAP 7-like Crassostrea virginica	KTTKKVLNEISKCIGLSSPGPHAFIMVLSVGSD 163
XP 022310198.1 GIMAP 4-like Crassostrea virginica	ESNDEIQQEILRCIQLSSPGPHAFIFVLNIATR 212
XP 022296314.1 GIMAP 4-like Crassostrea virginica	QTNEEVQN <mark>EIYKC</mark> IGITSPGPHAFILVLSLAAR 103
XP 022301668.1 GIMAP 4-like Crassostrea virginica	QTNEFTQEEISKCIGISSPGPHAFIIVINIANR 115 KTNEKTEQBMYKCISMTYPGPHAFILVINIAVR 332 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 243 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 241 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 230 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 229 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 241 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 241 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 242 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 242 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 232 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 231 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 231 QSNEDIQEEIKKCVLLTSPGPHAFILILRLDAR 231 QSNEDIQEIKKCVLLTSPGPHAFILVLSISNR 217 KTTKKVLNEISKCIGISSPGPHAFILVLSISNR 217 KTTKKVLNEISKCIGLSSPGPHAFILVLSLAAR 103 QTNEEVQNEIYKCIGITSPGPHAFILVLSLAAR 103 QTNEEVQNEIYKCIGITSPGPHAFILVLSLAAR 103 QTNEEVQNEIYKCIGITSPGPHAFILVLSLAAR 103 ETNEKVQEEIYKCIGITSPGPHAFILVINAAER 100 ETNEKVQEEIYKCIGITSPGPHAFILVINAAER 100 ETNEKVQEEIYKCIGITSPGPHAFILVINAAER 100 ETNEKVQEEIYKCIGITSPGPHAFILVINAAER 100 ETNEKVQEEIYKCIGITSPGPHAFILVINAAER 100 ETNEKVQEEIYKCIGITSPGPHAFILVINAAER 100 ETNEKVQEEIYKCIGITSPGPHAFILVINAAER 100
XP 022301131.1 GIMAP 4-like Crassostrea virginica	ETNEKVQE <mark>EI</mark> YKCIGITSPGPHAFILVINVAER 120
XP 022301812.1 GIMAP 4-like Crassostrea virginica	ETNEKVQE <mark>EI</mark> YKC <mark>IGITSPGPHA</mark> FILVINAAER 100
XP 022301132.1 GIMAP 4-like Crassostrea virginica	ETNEKIQEEIFKCIGITSPGPHAFILVINAAER 100
XP 022301145.1 GIMAP 4-like Crassostrea virginica	ETNEKVQE <mark>EI</mark> YKC <mark>IGITSPGPHAFILV</mark> INAAER 100
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	ESNENVQEEI <mark>NKC</mark> IGITSPGPHAFILVLNIVER 120
XP 022301589.1 GIMAP 4-like Crassostrea virginica	ESNENVQEEINKCIGITSPGPHAFILVLNIVER 120
XP 022301590.1 GIMAP 7-like Crassostrea virginica	ESNEKVQEEINKCIGITSPGPHAFILVLNITER 118
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	KPNDVVQREIIKCIGITSPGPHCFLLVM.GLSR 120
XP 022300528.1 LUW QUALITY PRUTEIN: GIMAP 4-like Crassostrea virginica	APNDVVQREIVKCIGITSPGPHCFLLVL.GLSR 142
XP 022298533.1 GIMAP 4-like, partial Crassostrea virginica	KPNDVVQREIIKCIGITSPGPHCFLLVM.GLSR 97
XP 02229/620.1 GIMAP /-like isoform X3 Crassostrea virginica	TPNDVVQKK <mark>IFHC</mark> IAMT <mark>SPGPHCFLLV</mark> L.EVSR 318
6	TPNDVVQKK <mark>I</mark> FQCVAMT <mark>SPGPHCFLLV</mark> L.EVSR 99
XP 022300251.1 GIMAP 7-like Crassostrea virginica	VSNDVIMTEVARCLALSAPGPHVFTYVFNALSR 105 SQSDTKIITETSKWYTLMSPGTHAILLVVK.AGR 107
XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica	
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica	SQSDTKIIT <mark>EISK</mark> WYTLMSPGIHAIL <mark>LV</mark> VK.AGR 107 TKTKEELKL <mark>EI</mark> SRWYALVSPGIHAI <mark>ILV</mark> VQ.VGR 145
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	NRTEQEILVEMSKWYSLVSPGIHAIILVVQ.VGR 149 NRTEQEILVEMSKWYSLVSPGIHAIILVVQ.VGR 149
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	MDTEDETI VEMCINIVATI VICE TANDITALI ILI VI
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	NRTEQEILVEMSKWYSLVSPGIHAIILVVQ.VGR 149 NRTEQEILVEMSKWYSLVSPGIHAIILVVQ.VGR 149
	NRTEQEILVEMSKWYSLVSPGIHAIILVVQ.VGR 149
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica XP 022295286.1 GIMAP 4-like Crassostrea virginica	
XP 022295260.1 GIMAP 4-like Crassostrea Virginica XP 022295287 1 GIMAP 4-like Crassostrea Virginica	NRTEQEILV <mark>ETSKWYSLVSPGVHAIILVVQ.VG</mark> R 142
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AP 022303000.1 GIMAP 4-like Isoform A3 Crassostrea virginica	APENLRNFVKKCGGRTVVFNNKLKGDENDQQVQYLLDF 255
AP 022304626.1 GIMAP 4-like isoform Al Crassostrea Virginica	APENLRNFVKKCGGRTVVFNNKLKGDENDKQVQHLLDF 228
XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica	APENLRNFVKKCGGRTVVFNNKLKGDENDKQVQHLLDF 209
XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica	APENLRNFVKKCGGRTVVFNNKLKGDENDKQVQHLLDF 203
XP 022307700.1 GIMAP 4-like Crassostrea virginica	APENLQNFIKKCGGRTLVFNNNLKGEENDKQVQCLLNF 293
XP 022335699.1 GIMAP 4-like Crassostrea virginica	SPAELQSLTKKCEGRVFALNNMIKGSKQINEVKILLNL 201
XP 022297635.1 GIMAP 4-like Crassostrea virginica	SPNDLKDLIKKCGDRVFAINNHLSGSKQDNEVNNLLNL 200
XP 022291746.1 GIMAP 4-like Crassostrea virginica	FPPALILLIQKCGGRAIAFDNTLKGEELDTQVKYLLKE 417
XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	TPIELQTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNT 328
XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica	TPIELQTV <mark>IKKC</mark> GGRVIAFDNRCTEKEQSKQVQELLNT 326
XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica	TPIELQTV <mark>IKKCGGR</mark> VI <mark>A</mark> FDNRCTEK <mark>E</mark> QSKQVQELLNT 315
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica	TPIE <mark>L</mark> QTV <mark>IKKC</mark> GGRVIAFDNRCTEK <mark>E</mark> QSKQVQELLNT 314
XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	TPIELQTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNT 326
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	TPIE <mark>L</mark> QTV <mark>IK</mark> KC <mark>GGR</mark> VI <mark>A</mark> FDNRCTEK <mark>E</mark> QSKQVQELLNT 327
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	TPIE <mark>L</mark> QTV <mark>IK</mark> KC <mark>GGR</mark> VI <mark>A</mark> FDNRCTEK <mark>E</mark> QSKQVQELLNT 325
XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica	TPIELQTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNT 317
XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica	TPIELQTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNT 317
XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica	TPIELQTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNT 317
XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica	TPIELQTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNT 317
XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica	TPIELQTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNT 316
XP 022291053.1 GIMAP 4-like Crassostrea virginica	SPPNLRLFIKRCGGKVFAIDNTLAGNRQDQQVGKLLSE 291
XP 022304158.1 GIMAP 7-like Crassostrea virginica	SPVELINFIEKCGKRAVAFDNTLKDEASERQVKELLDL 302
XP 022304950.1 GIMAP 7-like Crassostrea virginica	SPPRLVKFIEKCGARVVAFDNTLNGKASDDQVQDLLEL 248
XP 022310198.1 GIMAP 4-like Crassostrea virginica	SDENLKSFIAKCGGGAFAIENTLEGGKMDEQVQELLNR 297
XP 022296314.1 GIMAP 4-like Crassostrea virginica	SPPSLQTFVQKCGNRVIAFDNNLEGVEQDEQVEKLLDL 189
XP 022301668.1 GIMAP 4-like Crassostrea virginica	SPPNLRTFVQKCGNRVIAFDNNLEGVEQDGQVEKLLDL 189
XP 022301131.1 GIMAP 4-like Crassostrea virginica	CPFKLRRFTEKCGNRVIAFDNNLEGLEQNVQVKSLLDI 205
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	SPPSLQTFVQKCGNRVIAFDNNL .EGVEQDEQVEKLLDL 189 SPPNLRTFVQKCGNRVIAFDNNL .EGVEQDGQVEKLLDL 189 CPFKLRRFTEKCGNRVIAFDNNL .EGLEQNVQVKSLLDI 205 CPSKLRRFIEKCGNRVLAFDNNL .EGLEQSEQVKRLLDI 185 CPSKLQRFIEKCGNRILAFDNNL .EGPEQNEQVKKLLDI 185 CPYKLQQFIEKCGNRVLAFDNNL .EGLEQNEQVKGMLDI 185 CPYKLQQFIEKCGNRVLAFDNNL .EGLEQNEQVKGMLDI 185 CPPKLQKFIHKCGNRVIAFENKV .KGVEQDTQVKELLKI 205 CPPKLQKFIHKCGNRVIAFENKV .KGVEQDTQVKELLKI 205 CPSKLQKFIQKCGNRVLAFENKL .KGVEQDTQVKELLHI 203
XP 022301589.1 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	
AF 0220010301 GIMAD / TIME CLASSOSTICA VIRGINICA	VPQSLKTIISKCDHRCIAFNNRAPSPARHDQVEDLLEM 262
Ar 022290003.1 GIMAR 4-like Glassosties Vilginica	VPQSLKTIISKCDHRCIAFNNRAPSPARHDQVEDLLEM 262
Ar 022290700.1 GIMAR 4-like Glassosties Virginica	VPQSLKTIISKCDHRCIAFNNRAPSPARHDQVEDLLEM 262
Ar 02223027.1 GIMAR 4-like Glassostica Vilginica	VPGSLKTITSKODHRCTAFNNRAPSPARHDQVEDLLEM 202
Ar UZZSUIG4U.1 GIMAR 4-11KE GIASSOSUFEA VIIGIIIICA	VFESEA I I HARONDRO LAFINNIA SSPAREDOVEDLEKM 203
AP 022300526.1 LUW QUALITY PRUIEIN: GIMAP 4-TIKE Crassostrea Virginica	
AP 022298533.1 GIMAP 4-11ke, partial Crassostrea Virginica	VPESLKTIIVKCNHCCIAFNNTAPSPAKEDQVADLLKI 182
AP 02229/620.1 GIMAP /-11ke 1solorm A3 Crassostrea Virginica	VPEDLKTIIKNCNNRCIALNNRAPGSEKEEQVKNLLEM 403
AP 022302920.1 GIMAP 4-11ke Crassostrea Virginica	APEDLKTI <mark>IEKCNNRCIAFNNRASGSEQEEQVNH</mark> LLAE 184
	vstnfktflsnckwrvcwfdntl.sgsnagtqvrallse 190
XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica	DENEKEILEILSM 191
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica	KSSNLYKLIEEINRRYVAVGVRDENEKEILEILSM 191
XP 022292452.1 GIMAP 4-like Crassostrea virginica	KSTKFRKLIDTNN.RYIAMGYQGNVQDRDDEVKQILSM 231
XP 022292453.1 GIMAP 4-like Crassostrea virginica	KSTIFRKLVDTNN.GYIAMGYQGNFKDRDDEVKQLLSM 231
XP 022291927.1 GIMAP 4-like Crassostrea virginica	KSSNLRKLVDANN.RYMAMGYTGNVKDRDDEVKQTLSM 216
XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica	KSSN <mark>L</mark> RRL <mark>I</mark> DASKG <mark>R</mark> YT <mark>A</mark> IGYKGKME <mark>E</mark> RTME <mark>V</mark> KQI <mark>L</mark> SM 236
XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica	KSSNLRRLIDASKGRYTAIGYKGKMEERTMEVKQILSM 236
XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica	KSSN <mark>L</mark> RRL <mark>I</mark> DASKG <mark>R</mark> YT <mark>A</mark> IGYKGKIE <mark>E</mark> RTME <mark>V</mark> KQI <mark>L</mark> SM 236
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica	KSSNLRRLIDASKGRYTAIGYKGKIEERTMEVKQILSM 236
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	KSSNLRRLLDASKGRYTAIGYKGKIEERTMEVKQILSM 236
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica	KSSN <mark>L</mark> RRL <mark>I</mark> DASKG <mark>R</mark> YT <mark>A</mark> IGYKGKIE <mark>E</mark> RTME <mark>V</mark> KQI <mark>L</mark> SM 236
XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	KSSNLRRLIDASKGRYTAIGYKGKIEERTMEVKQILSM 236
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica	KSSNLRRLIDASKGRYTAIGYKGKIEERTMEVKQILSM 236
XP 022295286.1 GIMAP 4-like Crassostrea virginica	KSSNLRRLIDASKGRYTAIGYKGKMEERTMEVKQILSI 229
XP 022295287 1 CIMAP 4-like Crassostrea virginica	KSSN <mark>i</mark> rri <mark>t</mark> daskgryt <mark>a</mark> igykg kme <mark>r</mark> rtme <mark>vknii</mark> si 229

Consensis	** * * * *** *
consensus XP 022296317.1 GIMAP 4-like Crassostrea virginica	VIENVS.KRSSKYYSEDMYRQAKNQIRREEIRR
XP 022302183.1 GIMAP 4-like Crassostrea virginica	VIENVS.KRSSK <mark>YY</mark> SEDM <mark>Y</mark> RQ <mark>A</mark> KNQIRRE <mark>E</mark> IRR
XP 022303805.1 GIMAP 4-like isoform X3 Crassostrea virginica	VSENVA.KNOGKTISEEMIKGAKNGIRREETRIK227 VSENVA.KNOGKCYTNEMYIEAEKYIRKLEAQR287
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica	VSENVA.KNOGKCTTNEMTTEAEKYIRKLEAQR287
AN 022304626 1 CIMAD 4-like isoform X1 Crassostrea virginica	VSENVA.KNOGKCTTNEMTIEAEKYIRKLEAQR
XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica	VSENVA.KNOGKCITNEHTTEAEKTIRKLEAGR200 VSENVA.KNOGKCYTNEMYIEAEKYIRKLEAQR241
Ar UZZOUTOZI GIMAR T LINE ISOLOTII AZ CIASSOSTICA VIIGIIIICA VD 0220/628 1 CIMAD /-like isoform V3 Crassostroa virginica	VSENVA.KNOGKCTTNEHTTEAEKTIRKLEAGR241 VSENVA.KNOGKCYTNEMYIEAEKYIRKLEAQR235
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 02237625.1 GIMAP 4-like Crassostrea virginica	VSENVA.KNDGKCYTNEMYIEAEKYIRKLEAQR235 VSENVR.KNDGK <mark>YYTN</mark> EMFIEE <mark>E</mark> THIRNLEAQR325
AP 022307700.1 GIMAR 4 like Classostrea Virginica	ISENVA.N <mark>N</mark> FNECYTNDAFKR <mark>AE</mark> EEIQKQIQKE233
AT 022333351 GIMAD 4-like Grassostros virginica	ISENVA.NNFNECTTNDAFKNADEEIQKQIQKE233 ISENMV.K <mark>N</mark> MKA <mark>YY</mark> TNDL <mark>Y</mark> EK <mark>AE</mark> REILKE <mark>E</mark> MKR232
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 CIMAP 7-like isoform X8 Crassostrea virginica	IQTNLE.RNGGECFTGEMYRDFEEEIQKIDTEK
Ar 022231/10.1 GIMAR 4 like Glassostica Vilginica VD 022201/10.1 GIMAR 7-like Gastorm V1 (respective virginica	VLENVK.ANGGECTTNRMYIEAEKDMRKREEER
Ar 02223740.1 GIMAR / like isoform YA Crassostrea virginica	VLENVK.ANGGETTINGHTTEAEKDMRKREEER
AN 022204016 1 CIMAD 7-like isoform X8 Crassostrea virginica	VLENVK.ANGGETTINGTHEADKDMRKREEER
AN 02220410 I GIMAD 7-like isoform NO Grassostrea virginica	VLENVK.ANGGETTINTHILIAEKDMRKREEER346
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	VLENVK.ANGGETTINTHILIAEKDMRKREEER
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	VLENVK.ANGGETTINGTHEADKDMRKREEER
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	VLENVK.ANGGETTINTHEADKDMRKREEER
YP 022200/11 1 CIMAP 7-like isoform Y6 Crassostrea virginica	VIENVE ANGGEVYTNEMVIEAEK DMEKREEFE 340
AN O22204111 GIMAD 7-like isoform X6 Grassostrea virginica	VLENVK.ANGGETTINITIEAEKDMRKREEER349
AN 02220412 1 GIMAP 7-like isoform X6 Crassostrea virginica	VLENVK.ANGGETTINITIEAEKDMRKREEER349
YP 02299414 1 CIMAP 7-like isoform %6 Crassostres virginica	VLENVK.ANGGEYYTNRMYIEAEKDMRKREEER349
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	VLENVK.ANGGEYYTNRMYIEAEKDMRKREEER348
XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica XP 022291053.1 GIMAP 4-like Crassostrea virginica	IFRNLE.QNGYDYYTDEMYQEAERKIQEIENEMKKRDEEQRIKE 334
XP 022304158.1 GIMAP 7-like Crassostrea virginica	ISQNVA.K <mark>NG</mark> GRWYTDQMFKEAEEDIKKMEEKK
XP 022304950.1 GIMAP 7-like Crassostrea virginica	ICKNIQ.NNGDECYRDPIFMKAEKCIQEMENEK280
XP 022310198.1 GIMAP 4-like Crassostrea virginica	ISQNVK.NNRGECYTNDMYKKAEREINKIESMK
XP 022296314.1 GIMAP 4-like Crassostrea virginica	ILENVQ.ENGGEFYKNELYVEAEMKIQTVEEKK
XP 022301668.1 GIMAP 4-like Crassostrea virginica	ILÊNVQ.E <mark>NGGEFYKNELYVEAE</mark> MKIQTV <mark>E</mark> EKK221 ILENVR.E <mark>NG</mark> GEFYK <mark>N</mark> ELYVEAEMKIQTV <mark>E</mark> EEK221
XP 022301131.1 GIMAP 4-like Crassostrea virginica	ILENVK.RIGDDFYTNDMYIEAEKKILQVEEEK237
XP 022301812.1 GIMAP 4-like Crassostrea virginica	ILENVK.RIGDNFYTNDMYTEAEKKILLVEEEK
XP 022301132.1 GIMAP 4-like Crassostrea virginica	ILENVK.RIGDNFYTNDMYTEAEKKILLVEEEK217 ILENVK.RHGDDFYTNDMYIEAENKIQLIEKEK217
XP 022301145.1 GIMAP 4-like Crassostrea virginica	ILENVK.RIGDNFYTNDMYIEAEKKILLVEEEK
XP 022301588.1 GIMAP 4-like Crassostrea virginica	TEKNYS ENGGREYTNEKYNTAED KIKATEEKR 237
XP 022301589.1 GIMAP 4-like Crassostrea virginica	IEKNVS.ENGGRFYTNEKYNTAEQKIKAIEEKR
XP 022301590.1 GIMAP 7-like Crassostrea virginica	IEKNVS.ENGGRFYTNEKYNTAEQKIKAIEEKR237 IEKNVS.ENGGKFYTNEMYITAEREIKAIEEKR235 INDIVS.NNHGDCYTNDVYSEAEKVMKQRQYQI294
XP 022296665.1 GIMAP 4-like Crassostrea virginica	INDIVS.NNHGDCYTNDVYSEAEKVMKQRQYQI
XP 022296700.1 GIMAP 4-like Crassostrea virginica	INDIVS.NNHGDCMTNDMYSEAEKVMKURUYUI
XP 022295827.1 GIMAP 4-like Crassostrea virginica	INDIVS.NNHGDCYTNDMYSEAEKVMKQRQYQI
XP 022301840.1 GIMAP 4-like Crassostrea virginica	IDDMVC.N <mark>N</mark> HGGH <mark>YTY</mark> NM <mark>Y</mark> RE <mark>AK</mark> KVMKHRKYQE 237
XP 022300528 1 LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica	TDDTTB ONNGRENTNEMVAEAEK VMKHRQYQT 259
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 02237294 1 GIMAP 4-like isoform X1 Crassostrea virginica	EKELLE.LEI.ECIQKEDNRHSHRHERERQRER
XP 022297620.1 GIMAP 7-like isoform X3 Crassostrea virginica	IDKMVD.QNNGKFYTNKMYTEAEKIMKQREDQI435
XP 022302920.1 GIMAP 4-like Crassostrea virginica	IDRMVY.EKDGS <mark>YYTNNMYIKGEEVMKTRE</mark> QEI216 VEKMIKENGNISYFTNTLYTEAEKLMKKREEEI223 IDAIGG.PH <mark>G</mark> DK <mark>YYSN</mark> EYFKEI <mark>EK</mark> CMEEM <mark>E</mark> KK222
XP 022300251.1 GIMAP 7-like Crassostrea virginica	VEKMIKENGNISYFTNTLYTEAEKLMKKREEEI
XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica	IDAIGG.PHGDKYYSNEYFKETEKCMEEMEKK
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica	IDAIGG.PHCDKYYSNEYFKEIDKCMEEMDKK
XP 022292452.1 GIMAP 4-like Crassostrea virginica	VEEISG.RDGSNYYSNKVFQNVEKLLEEEDRRQSEET 267
XP 022292453.1 GIMAP 4-like Crassostrea virginica	VEEISG.KDGSNYYSNKIFQNVEKLLQEEDRKQREKI 267 VEEISG.KDGNNYYSNKIFQEV <mark>EK</mark> ILKEE <mark>E</mark> RKKTEEI 252
XP 022291927.1 GIMAP 4-like Crassostrea virginica	VEEISG.KDGNNYYSNKIFQEVEKILKEEERKKTEEI 252
XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica	TEEIAG.EDGKNYYSNEVFRRVQEDLEEIERKRIKKI 272
XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica	TEEIAG.EDGKNYYSNEVFRRVQEDLEEIERKRIKKI 272
XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica	IEEIAG.KD <mark>G</mark> KN <mark>YYSN</mark> EVFQRVQ <mark>K</mark> VMEENERK
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica	IEEIAG.KD <mark>G</mark> KN <mark>YY</mark> S <mark>N</mark> EVFQRVQ <mark>K</mark> VMEEN <mark>E</mark> RK
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	IEEIAG.KD <mark>G</mark> KN <mark>YY</mark> S <mark>N</mark> EVFQRVQ <mark>K</mark> VMEEN <mark>E</mark> RK
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica	IEEIAG.KD <mark>G</mark> KN <mark>YY</mark> S <mark>N</mark> EVFQRVQ <mark>K</mark> VMEEN <mark>E</mark> RK
XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	IEEIAG.KD <mark>G</mark> KN <mark>YY</mark> S <mark>N</mark> EVFQRVQ <mark>K</mark> VMEEN <mark>E</mark> RK
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica	IEEIAG.KD <mark>G</mark> KN <mark>YY</mark> S <mark>N</mark> EVFQRVQ <mark>K</mark> VMEEN <mark>E</mark> RK
XP 022295286.1 GIMAP 4-like Crassostrea virginica	IEEIEG.KD <mark>G</mark> KN <mark>YYS</mark> NEVFQRVQEVMEEN <mark>E</mark> RK
XP 022295287 1 GTMAP 4-like Crassostrea virginica	TEETEG KO <mark>G</mark> KN <mark>YY</mark> S <mark>MEVFORVOE VMEENE</mark> RK 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	KQMKREKK <mark>E</mark> QEYKKIKEEIEQKYLKAIQAGDEKLK	322
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica	KQMKREKK <mark>E</mark> QEYKKIKEEIEQKYLKAIQAGDEKLK	322
XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica	KQMKREKLEQAYKKIKEEIEQKYLKAIQAGDEKLK	295
XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica	KQMKREKL <mark>E</mark> QAYKKIKEEIEQKYLKAIQAGDEKLK	276
	KQMKREKL <mark>E</mark> QAYKKIKEEIEQKYLKAIQAGDEKLK	270
XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica		
XP 022307700.1 GIMAP 4-like Crassostrea virginica	KQIKREKTEQENKKIKDEKEQKYLEDIEAGDEKLK	360
XP 022335699.1 GIMAP 4-like Crassostrea virginica		250
XP 022297635.1 GIMAP 4-like Crassostrea virginica	KEQIQKELDRKVRELEE	249
XP 022291746.1 GIMAP 4-like Crassostrea virginica	TKQKEEKRIKEMKEIEA	466
XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	LQAAIQQQEKMFKERYQ	377
XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica	LQAAIQQQEKMFKERYQ	375
XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica	LQAAIQQQEKMFKERYQ	364
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica	LQAAIQQQ <mark>E</mark> KMFKERYQ	363
XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	LQAAIQQQ <mark>E</mark> KMFKERYQ	375
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	LQAAIQQQ <mark>E</mark> KMFKERYQ	376
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	LQAAIQQQ <mark>E</mark> KMFKERYQ	374
XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica	LQAAIQQQEKMFKERYQ	366
XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica	LQAAIQQQEKMFKERYQ	366
XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica	LQAAIQQQ <mark>E</mark> KMFKERYQ	366
XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica	LQAAIQQQ <mark>E</mark> KMFKERYQ	366
XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica	LQAAIQQQ <mark>E</mark> KMFKERYQ	365
XP 022291053.1 GIMAP 4-like Crassostrea virginica		351
XP 022304158.1 GIMAP 7-like Crassostrea virginica	MRETEEKRKEELKAIEERIEGKYSRISEIEKTKLM	369
XP 022304950.1 GIMAP 7-like Crassostrea virginica	MSEMEEVEMRERDEERKQKIKLA	303
XP 022310198.1 GIMAP 4-like Crassostrea virginica	WQENMKTREREFQIIQEKIVEKYQQKADKEREKLE	364
XP 022296314.1 GIMAP 4-like Crassostrea virginica		241
XP 022301668.1 GIMAP 4-like Crassostrea virginica		241
XP 022301131.1 GIMAP 4-like Crassostrea virginica	VQHEKEKL <mark>E</mark> EELKRFDQKHE	257
XP 022301812.1 GIMAP 4-like Crassostrea virginica	LQHEREKL <mark>E</mark> EELKRFDQKHE	237
XP 022301132.1 GIMAP 4-like Crassostrea virginica	LQPEKEKVDEELRRFDQKHE	237
XP 022301145.1 GIMAP 4-like Crassostrea virginica	LQHEKEKLEEDLKRFDQKHE	237
XP 022301588.1 GIMAP 4-like Crassostrea virginica	FREVEEKLVEDFLTSIRETK	257
XP 022301589.1 GIMAP 4-like Crassostrea virginica	FREVEEKLVEDFLTSIRETK	257
XP 022301590.1 GIMAP 7-like Crassostrea virginica	FREVEEKLVVDFLTSIKETK	255
XP 022296665.1 GIMAP 4-like Crassostrea virginica	EKERERNRERERKAMKREIEEKYRSESRSHYKKES	329
XP 022296700.1 GIMAP 4-like Crassostrea virginica	EKERERKR <mark>E</mark> RERKAMKREIEEKYRSESRSHYKRES	329
XP 022295827.1 GIMAP 4-like Crassostrea virginica	EKDRERKR <mark>E</mark> RERKAMEREIEEKYRSESRSHYKRES	329
XP 022301840.1 GIMAP 4-like Crassostrea virginica	EKARNREREREREKAMEREIEQKYKKQSRSNQKKEQ	272
XP 022300528.1 LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica	ERDRERKR <mark>E</mark> RERNAIEREFEQKFRSQRESHLDIQS	294
XP 022298533.1 GIMAP 4-like, partial Crassostrea virginica	ERERERERERERERERERERERERERERERERER	245
XP 022297620.1 GIMAP 7-like isoform X3 Crassostrea virginica	EKERNEKCKQDKEKNNCELGVSGQKCSDQELEEES	470
XP 022302920.1 GIMAP 4-like Crassostrea virginica	VKKRREKREQNKEKNERELRGSRQRCSDKEFEEEH	251
XP 022300251.1 GIMAP 7-like Crassostrea virginica	MLDQRKKENELSVLRIREEHIEKDRKLKAWRMRDI	258
XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica	QMRESRNQIRDTYNDDVRDSTRRRIADE	250
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica	QMRESRNQIRDTYNDDVRDSTRRRIADE	250
XP 022292452.1 GIMAP 4-like Crassostrea virginica	KEKRKRRLYTDEEMMNFVDHARAKTREEVFNENFR	302
XP 022292453.1 GIMAP 4-like Crassostrea virginica	KEEQKGRRYTDEEMMNLYNFPRAKTRKEIF	297
XP 022291927.1 GIMAP 4-like Crassostrea virginica	KKKFKEKRFSDEEMIKIVIEARTNIREEVLNEDFR	287
XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica	EEENREKKYTLSEINALLQSARSESRVHIVNNNYQ	307
XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica	$\dots\dots$ EEENREKKYT $_{L}$ SEINALLQSARSESRVHIVN \dots NNYQ	307
XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica	KEKNREKMYT <mark>E</mark> SEVNLLLHSARTQSRVDIVNNNYN	302
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica	KEKNREKMYT <mark>E</mark> SEVNLLLHSARTQSRVDIVNNNYN	302
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	KEKNREKMYT <mark>E</mark> SEVNLLLHSARTQSRVDIVNNNYN	302
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica	KEKNREKMYT <mark>E</mark> SEVNLLLHSARTQSRVDIVNNNYN	302
XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	KEKNREKMYTESEVNLLLHSARTQSRVDIVNNNYN	302
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica		302
XP 022295286.1 GIMAP 4-like Crassostrea virginica		274
XP 022295287 1 GIMAP 4-like Crassostrea virginica	HKKETEEKNR <mark>E</mark> KKT	274

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CONSENSUS VD 000006217 1 CIMAD 4-like Craggedtree wirginise	DEEVEKDI OKMODEMKETOK KANGCCI VETAI NUAVDCACTETCHMED	210
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	EVQNKLDQMHNQQEQERAVHLHKMNELLRQEEEKRILLKKEQDDKIHKLT	372
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica	EVQNKLDQMHNQQEQERAVHLHKMNELLRQEEEKRILLKKEQDDKIHKLT	372
XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica	KVQNKLDQMHNQQEQERAAHLHKMEELMRQEEEKRILLKQEQDEKIHKLT	345
XP 022304627.1 GIMAP 4-like isoform X2 Crassostrea virginica	KVQNKLDQMHNQQEQERAAHLHKMEELMRQEEEKRILLKQEQDEKIHKLT	326
XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica	KVQNKLDQMHNQQEQERAAHLHKMEELMRQEEEKRILLKQEQDEKIHKLT	320
XP 022307700.1 GIMAP 4-like Crassostrea virginica	EVQSELDQMHIQLKKERNKNVPC	383
XP 022335699.1 GIMAP 4-like Crassostrea virginica	EILEKNQGTMEE	262
XP 022297635.1 GIMAP 4-like Crassostrea virginica	KVRRENKGNIEM	261
XP 022291746.1 GIMAP 4-like Crassostrea virginica	KEAEKIREE	475
XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	EELNKMKEN	386
XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica	EELNKMKEN	384
XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica	EELNKMKEN	373
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica	EELNKMKEN	372
XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	EELNKMKEN	384
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	EELNKMKEN	385
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	EELNKMKEN	383
XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica	EELNKMKEN	375
XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica	EELNKMKEN	375
XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica	EELNKMKEN	375
	EELNKMKEN	375
XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica	EELNKMKEN	374
XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica		
XP 022291053.1 GIMAP 4-like Crassostrea virginica	QEIDKINSLTFELTELRKNQAEREYEVKNL.MKVVDAKEKQISECPGAEN QVQNELENLHQSKREKEKEVEDLRKNFESF.KKQHEMSSGEERERFQQTL	400
XP 022304158.1 GIMAP 7-like Crassostrea virginica		418
XP 022304950.1 GIMAP 7-like Crassostrea virginica	KNANETNDT	312
XP 022310198.1 GIMAP 4-like Crassostrea virginica	RIRDQIREQLEKQKMNTDRIVALKNKIEKL.KHELKDSQSDTNEHL	409
XP 022296314.1 GIMAP 4-like Crassostrea virginica	QKVEKVQSHLEVLNRKQNNETCQIGSLVKKIEE	274
XP 022301668.1 GIMAP 4-like Crassostrea virginica	QKVEKVQNHLEVLNRKQNHETCHIGSLVKKIEE	274
XP 022301131.1 GIMAP 4-like Crassostrea virginica	QAIGGINDQVKELSRKQDQEEREIGALETIIEE	290
XP 022301812.1 GIMAP 4-like Crassostrea virginica	EAIVGLNDEVKELSRKQDREEREIGSIEKIIEK	270
XP 022301132.1 GIMAP 4-like Crassostrea virginica	EKVGGLNDQLKELSRKQEREEREIGIIEKNIEE	270
XP 022301145.1 GIMAP 4-like Crassostrea virginica	QAIEGINDEVKELSRKLDREEHAIPDSDMRLRIHE	272
XP 022301588.1 GIMAP 4-like Crassostrea virginica	QGVKKLATHFEELGVTPKQKCKVNDDYDKVDKNVTEKFKGVNTLKNQFEM	307
XP 022301589.1 GIMAP 4-like Crassostrea virginica	QGVKKLATHFEELGVTPKQKCKVNDDYDKVDKNVTEKFKGVNTLKNQFEM	307
XP 022301590.1 GIMAP 7-like Crassostrea virginica	QDVKKLATQFEEFGQTPKQKEKEGDEFNKEEKSVTEKDRRVNTLKNKFER	305
XP 022296665.1 GIMAP 4-like Crassostrea virginica	ELETRVAELESMRDHNGKRSSALEREVLELEDEIESERRQYGTPSSRLLS	379
XP 022296700.1 GIMAP 4-like Crassostrea virginica	ELETRVAELESMRDHNGKRSSALEREVHELEDEIESERRQYGAPSSRLLS	379
XP 022295827.1 GIMAP 4-like Crassostrea virginica	ELETRVAELESMRDHYAKRSSALEREVLELEDEIESERRQYGAPSSRLLS	379
XP 022301840.1 GIMAP 4-like Crassostrea virginica	S	273
XP 022300528.1 LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica	ALEIRVAELESLADTSKGKT	314
XP 022298533.1 GIMAP 4-like, partial Crassostrea virginica	TFHSVVFIFQP	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	ESFGEKILSVVGS	263
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica	ESFGEKILSVVGS	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	LIMKVTIAVLPLISSIVGIYFNFDTI	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	TGLLSDLISTVASG	316
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica	TGLLSDLISTVASG	316
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	TGLLSDLISTVASG	316
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica	TGLLSDLISTVASG	316
XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	TGLLSDLISTVASG	316
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica	TGLLSDLISTVASG	316
XP 022295286.1 GIMAP 4-like Crassostrea virginica		274
XP 022295200.1 GIMAP 4-like Crassostrea virginica		274

P. 022296317. CIMPA 4-like Crassortrea virginica 310 70 72 72 72 72 72 72 7	congengua		
## PO 222393018.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 222303906.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22303906.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22304070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 4-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginica ## PO 22204070.1 GIMA# 7-like isoform X Grassostrea virginic	CONSENSUS		210
FOUR COMPANDED	9		
P. 022363806.1 GIMAN 4-like isoform X3 Crassostrea virginica QVHIENGNINEGRALIERNEKTYQGETOKSENGNIGGGTILERNEKT 422			
PO 022304026.1 GIMPA 4-like isoform XI Crassostrea virginica QVHIENGUKKEGERAALIERKNNUQGEGINEESKNEKUKKKKK 378			
PO 022304627.1 GIMPA 4-like isoform X2 Crassostrea virginica QVHIENGUKKEGERAALIERKKWQGEGTHEKSKWGKIGKGUTELKKKWG X70 PO 022307763.1 GIMPA 4-like Crassostrea virginica VYKK			
PO 22239401 CIMAP 4-11ke isoform X3 Crassostrea virginica CYNTENGERAALIEMEKNYQEGIDKESKMGKIQKLIELEKKKKK 379			
## 0223207700.1 GLMPA 4-like Crassostrea virginica ## 0223207700.1 GLMPA 4-like Grassostrea virginica ## 0223207700.1 GLMPA 4-like Grassostrea virginica ## 0223207700.1 GLMPA 7-like isoform X1 Crassostrea virginica ## 0223207700.1 GLMPA 7-like isoform X2 Crassostrea virginica ## 0223207700.1 GLMPA 7-like Crassostrea			
PO C22235659. GIMAP 4-like Crassostrea virginica NYKKK NEDIOKYEKKEN 726	XP 022304628.1 GIMAP 4-like isoform X3 Crassostrea virginica	QVHIENQNKMEQERAALIERMKNVQQEQTDKESKMQKIQKQLTELEKKQK	
PO 022297461. GIMAP 4-like Crassostrea virginica KRKN. LKAEVEEKKR 275	XP 022307700.1 GIMAP 4-like Crassostrea virginica		
PO 02229940.1 GIMPA 7-like isoform X1 Crassostrea virginica NE.	XP 022335699.1 GIMAP 4-like Crassostrea virginica	NYKKKKDEIQEKYEKKLT	280
PO 0222994016 GIMAP 7-11ke isoform X1 Crassostrea virginica NE. QEIEK 393 PO 022299416 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 396 PO 022299416 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 397 PO 022299416 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 398 PO 022299407 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 398 PO 022299407 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299411 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299412 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299412 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299413 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299414 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QUELK 393 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QUELK 394 PO 02220945 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QUELK 394 PO 02220945 GIMAP 7-11ke Crassostrea virginica NE. QUELK 395 PO 02220945 GIMAP 7-11ke Crassostrea virginica DEIR SUBMAR GIMAP 7-11ke Crassostrea virginica DEIR GIMAP 7-11ke Crassostrea virginica DEIR GIMAP 7-11ke Crassostrea virginica PO 02220168 GIMAP 7-11ke Crassostrea virgin	XP 022297635.1 GIMAP 4-like Crassostrea virginica	KRKNLKAEYEEKMR	275
PO 0222994016 GIMAP 7-11ke isoform X1 Crassostrea virginica NE. QEIEK 393 PO 022299416 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 396 PO 022299416 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 397 PO 022299416 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 398 PO 022299407 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 398 PO 022299407 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299411 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299412 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299412 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299413 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299414 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QEIEK 392 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QUELK 393 PO 022299415 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QUELK 394 PO 02220945 GIMAP 7-11ke isoform X8 Crassostrea virginica NE. QUELK 394 PO 02220945 GIMAP 7-11ke Crassostrea virginica NE. QUELK 395 PO 02220945 GIMAP 7-11ke Crassostrea virginica DEIR SUBMAR GIMAP 7-11ke Crassostrea virginica DEIR GIMAP 7-11ke Crassostrea virginica DEIR GIMAP 7-11ke Crassostrea virginica PO 02220168 GIMAP 7-11ke Crassostrea virgin	XP 022291746.1 GIMAP 4-like Crassostrea virginica	VRKQVREANYESVF	489
RP 022299409. GIMAP 7-like isoform X4 Orassostrea virginica NE.	XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	NEQEIEK	393
RP 022299418.1 GIMAP 7-like isoform X8 Crassostrea virginica NE		NEQEIEK	
RP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica NE		NEQEIEK	
AP 02229940.1 GIMAP 7-like isoform X3 Crassostrea virginica NE		NEQEIEK	
PO 202299411.1 GIMAP 7-like isoform X2 Crassostrea virginica NE	<u> </u>	NE	
RP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica RE	<u> </u>		
AP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica NE		NE GETEK	
RP 022299412.1 GIMAP 7-like isoform %6 Crassostrea virginica RE QEIEK 382 RP 022299414.1 GIMAP 7-like isoform %6 Crassostrea virginica RE QEIEK 382 RP 022299415.1 GIMAP 7-like isoform %6 Crassostrea virginica RE QEIEK 382 RP 02229151.1 GIMAP 7-like isoform %7 Crassostrea virginica RE DEDMG TLDLIRELELEDATAKOERE QEIEK 381 RP 02230495.1 GIMAP 4-like Crassostrea virginica RE DEDMG TLDLIRELELEDATAKOERE 440 RP 02230495.1 GIMAP 7-like Crassostrea virginica RE DEDMG TLDLIRELELEDATAKOERE 440 RP 02230495.1 GIMAP 4-like Crassostrea virginica RP 02230495.1 GIMAP 4-like Crassostrea virginica RP 02230495.1 GIMAP 4-like Crassostrea virginica RP 0223068.1 GIMAP 4-like Crassostrea virginica RP 0223068.1 GIMAP 4-like Crassostrea virginica RP 02230131.1 GIMAP 4-like Crassostrea virginica RP 02230158.1 GIMAP 4-like Crassostrea virginica		NE OFIEK	
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RF 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica			
RP 022291053.1 GTMAP 4-11ke Crassostrea virginica EEDMNTLLRNELAELKATAGERKIAEIEKAKNEAEE.			
RF 022304158.1 GIMAP 7-11ke Crassostrea virginica DSLT.		FEDMO TIDIIDMEI VEI KDVAAKGEDKI VEIEKVKMEVEE	
FP 022304950.1 GIMAP 7-like Crassostrea virginica ISLD			
PO 222310198.1 GIMAP 4-like Crassostrea virginica PC 222301314.1 GIMAP 4-like Crassostrea virginica PC 22301668.1 GIMAP 4-like Crassostrea virginica PC 22301668.1 GIMAP 4-like Crassostrea virginica PC 22301311.1 GIMAP 4-like Crassostrea virginica PC 22301311.1 GIMAP 4-like Crassostrea virginica PC 22301312.1 GIMAP 4-like Crassostrea virginica PC 22301312.1 GIMAP 4-like Crassostrea virginica PC 2230145.1 GIMAP 4-like Crassostrea virginica PC 22301589.1 GIMAP 4-like Crassostrea virginica PC 22301665.1 GIMAP 4-like Crassostrea virginica PC 22301666.1 GIMAP 4-like Crassostrea		TGID ONIKWEIEK	
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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
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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	RTRKIEELQEAKDKSEE.IYE	454
XP 022304950.1 GIMAP 7-like Crassostrea virginica	V	326
XP 022310198.1 GIMAP 4-like Crassostrea virginica	LSQKIKELKKTRDESAERIKT	446
XP 022296314.1 GIMAP 4-like Crassostrea virginica	RNILEIC	326
XP 022300168.1 GIMAP 4-like Crassostrea virginica	RNIIEIC	326
XP 022301131.1 GIMAP 4-like Crassostrea virginica	RESLNLC	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	VETYDGKPLRDSLRLC	373
XP 022301589.1 GIMAP 4-like Crassostrea virginica	VETYDGKPL	373
XP 022301590.1 GIMAP 7-like Crassostrea virginica	IDVYESTQR	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
		313
XP 022291927.1 GIMAP 4-like Crassostrea virginica		321
XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica		321
XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica		
XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica		316 316
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica		316 316
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 XP 022295286.1 GIMAP 4-like Crassostrea virginica		316 274
XP 022295280.1 GIMAP 4-like Crassostrea virginica XP 022295287 1 GIMAP 4-like Crassostrea virginica		274 274
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consensus		0.4.0
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	TELENLKKIVETSKVEAEKQFHQDLKRENEKQNKAEEKGTERNEIRQELA	522
XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica	TELENLKKIVETSKVEAEKQFHQDLKRENEKQNKAEEKGTERNEIRQELA	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	NVRDDIRKEYANAAIQMVSSVGSYVYNAVGSVYSYFTGAK	320
XP 022297635.1 GIMAP 4-like Crassostrea virginica	NVRDGIRGDISTMQLLRDFILGMLGGFLKKILPIPVENKGNGKSAIHHPK	325
XP 022291746.1 GIMAP 4-like Crassostrea virginica	NVFNSLRGFFSSLYHDS.	506
XP 022299405.1 GIMAP 7-like isoform X1 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	437
XP 022299409.1 GIMAP 7-like isoform X4 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	435
XP 022299416.1 GIMAP 7-like isoform X8 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	424
XP 022299418.1 GIMAP 7-like isoform X9 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	423
XP 022299408.1 GIMAP 7-like isoform X3 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	435
XP 022299407.1 GIMAP 7-like isoform X2 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	436
XP 022299410.1 GIMAP 7-like isoform X5 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	434
XP 022299411.1 GIMAP 7-like isoform X6 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	426
XP 022299412.1 GIMAP 7-like isoform X6 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	426
XP 022299413.1 GIMAP 7-like isoform X6 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	426
XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	426
XP 022299415.1 GIMAP 7-like isoform X7 Crassostrea virginica	KMEEFVKDQKAKMEEDIERMKR.ENRDISRDMVEENGSSGLCVIL	425
XP 022291053.1 GIMAP 4-like Crassostrea virginica	KNAQIIEKQKQELEDTRREYDR.KQDDMYREEIRHQIEMQMALPKQIW	487
XP 022304158.1 GIMAP 7-like Crassostrea virginica	EIRKIQLEERERAKLEYTKIEREKARDDVKEYISENGFFSSLVDFGIK	502
XP 022304950.1 GIMAP 7-like Crassostrea virginica	DVRAILGPGRSYSSFEKKKIRDNVRKDISNNGFCRLMQQCEI.	368
XP 022310198.1 GIMAP 4-like Crassostrea virginica	KFHEMCDDEIDKAYEHYTEQQKAKYRDEIRKVFAFWPVEMLKQGIK	492
XP 022296314.1 GIMAP 4-like Crassostrea virginica	KIQKENRDRFKRELEEKLAVKRNLFRDEIRRDVEE.KEDSPP.TECTI	372
XP 022301668.1 GIMAP 4-like Crassostrea virginica	KIQKENRDRFKRELEEKLAVKRNLVRDEIRKDVEE.KQDSPP.TECTI	372
XP 022301131.1 GIMAP 4-like Crassostrea virginica	KIQHNEREKFKQQLEDELSFKRIEARENIRKEIEG.KPASKTWSECTV	389
XP 022301812.1 GIMAP 4-like Crassostrea virginica	KIKHNEREKFKQQLEGQLNLRRKEVRDDIRKAIEV.KGAYKKWSECTV	369
XP 022301132.1 GIMAP 4-like Crassostrea virginica	KTQHDEREKFKHQLDGKLNLRREEVREDIRKEIEA.KKPSKECII	366
XP 022301145.1 GIMAP 4-like Crassostrea virginica	RDEFSQPMGPTPIDRTRDKMVKSLVNTRKTRDSRIRGSRNDYLKMAQNSF	374
XP 022301588.1 GIMAP 4-like Crassostrea virginica	HLPGNQGEEIKRELEEKLRLEKGKVRDEIRKEIEH.KRRSVSWNSCII	420
XP 022301589.1 GIMAP 4-like Crassostrea virginica	HLPGNQGEEIKRELEEKLRLEKGKVRDEIRKEIEH.KRRSVSWNSCII	420
XP 022301590.1 GIMAP 7-like Crassostrea virginica	RLPGHHGEEIKRELEEKLRVEKGRVRDEIRREIEQ.KRRSMSCII	414
XP 022296665.1 GIMAP 4-like Crassostrea virginica	RLEELDRKYSQLQTPRQEVRQEVESGSGNVGEALLGGIMTIGKLIWKGIQ	480
<u> </u>	RLEELDRKYSQLQTPRQEVRQEVESGSGNVGEALLGGIMTIGKLIWKGIQ	480
XP 022296700.1 GIMAP 4-like Crassostrea virginica	RLEELDRKYNQLQNPRYEVRQEVESGSGNVGEALLGGIMTIGKLIWKGIQ	480
XP 022295827.1 GIMAP 4-like Crassostrea virginica	TEEFFDWINGEGMENTEANGEAFSGROUNGERFFGGIHITGVFTMWGIG	273
XP 022301840.1 GIMAP 4-like Crassostrea virginica XP 022300528.1 LOW QUALITY PROTEIN: GIMAP 4-like Crassostrea virginica		321
XP 022298533.1 GIMAP 4-like, partial Crassostrea virginica		256 519
XP 022297620.1 GIMAP 7-like isoform X3 Crassostrea virginica		280
XP 022302920.1 GIMAP 4-like Crassostrea virginica	FSPRQQAIYELENNLGNITNSLWIAFKAF KLKERLSKGYHRGNPRSMARKEVSKRNSSFSQMVSRGIIALGKHLLTGLL	375
XP 022300251.1 GIMAP 7-like Crassostrea virginica	LIBITIANDLALLENGVINGGRANGVINARIGARNENTI ENGLAINAN VIUGMIIIA AVVAT IGVI	
XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica	FVRLIAVKAAEFIMRHFV	281
XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica	FVRLIAVKAAEFIMRHFV	281
XP 022292452.1 GIMAP 4-like Crassostrea virginica	NLVDSHTFFDSCIYLIKRFLG	340
XP 022292453.1 GIMAP 4-like Crassostrea virginica	SFENPYTVFDAFISFIRRYIV	318
XP 022291927.1 GIMAP 4-like Crassostrea virginica	YEAILHYVTCFIPTIIGIYLNFSTIYDAILYYVTRLIE	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	LYALGAFVVGGAGALLSFVGGWFG	340
XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica	LYALGAFVVGGAGALLSFVGGWFG	340
XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica	LYALGAFVVGGAGALLSFVGGWFG	340
XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica	LYALGAFVVGGAGALLSFVGGWFG	340
XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica	LYALGAFVVGGAGALLSFVGGWFG	340
XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica	LYALGAFVVGGAGALLSFVGGWFG	340
XP 022295286.1 GIMAP 4-like Crassostrea virginica		286
XP 000095087 1 GIMAP 4-like Crassostrea virginica	GAALSMVGEWFA	286

consensus XP 022296317.1 GIMAP 4-like Crassostrea virginica XP 022302183.1 GIMAP 4-like Crassostrea virginica 310 XP 022303805.1 GIMAP 4-like isoform X3 Crassostrea virginica EDPSKIVRAFNAAGKAVSKAYDKVTSACTIS......... 553 EDPSKIVRAFNAAGKAVSKAYDKVTSACTIS....... XP 022303806.1 GIMAP 4-like isoform X3 Crassostrea virginica 553 XP 022304626.1 GIMAP 4-like isoform X1 Crassostrea virginica EDPSKIVRAFNAAGKFVAEAYDTVTSACTIS......... 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 XP 022297635.1 GIMAP 4-like Crassostrea virginica 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 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 435 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 426 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 DTVKSVGGFLKSIFGR...... 503 XP 022304158.1 GIMAP 7-like Crassostrea virginica IGSKLLDLLLDSDDTPLP.................. 520 XP 022304950.1 GIMAP 7-like Crassostrea virginica KGIEFLSDIFSK...... 504 XP 022310198.1 GIMAP 4-like Crassostrea virginica XP 022296314.1 GIMAP 4-like Crassostrea virginica XP 022301668.1 GIMAP 4-like Crassostrea virginica 373 XP 022301131.1 GIMAP 4-like Crassostrea virginica XP 022301812.1 GIMAP 4-like Crassostrea virginica XP 022301132.1 GIMAP 4-like Crassostrea virginica 367 XP 022301145.1 GIMAP 4-like Crassostrea virginica IK.............. 376 XP 022301588.1 GIMAP 4-like Crassostrea virginica XP 022301589.1 GIMAP 4-like Crassostrea virginica XP 022301590.1 GIMAP 7-like Crassostrea virginica MIF........ XP 022296665.1 GIMAP 4-like Crassostrea virginica XP 022296700.1 GIMAP 4-like Crassostrea virginica MIF.......... 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 LVLDRIY........ XP 022302920.1 GIMAP 4-like Crassostrea virginica GLLLL....... 380 XP 022300251.1 GIMAP 7-like Crassostrea virginica DV........... XP 022287294.1 GIMAP 4-like isoform X1 Crassostrea virginica XP 022287295.1 GIMAP 4-like isoform X1 Crassostrea virginica DV............. XP 022292452.1 GIMAP 4-like Crassostrea virginica F.............. XP 022292453.1 GIMAP 4-like Crassostrea virginica XP 022291927.1 GIMAP 4-like Crassostrea virginica 361 XP 022295273.1 GIMAP 4-like isoform X1 Crassostrea virginica F............ XP 022295274.1 GIMAP 4-like isoform X1 Crassostrea virginica F.............. XP 022295275.1 GIMAP 4-like isoform X2 Crassostrea virginica F................. XP 022295276.1 GIMAP 4-like isoform X2 Crassostrea virginica XP 022295277.1 GIMAP 4-like isoform X2 Crassostrea virginica F.............. 341 XP 022295278.1 GIMAP 4-like isoform X2 Crassostrea virginica F.............. XP 022295279.1 GIMAP 4-like isoform X2 Crassostrea virginica XP 022295280.1 GIMAP 4-like isoform X3 Crassostrea virginica F.............. XP 022295286.1 GIMAP 4-like Crassostrea virginica F............

YP 022265287 1 CIMAP A-like Crassostrea virginica

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 XP 022307700.1 GIMAP 4-like Crassostrea virginica		501 383
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		426 426
XP 022299414.1 GIMAP 7-like isoform X6 Crassostrea virginica 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 XP 022301590.1 GIMAP 7-like Crassostrea virginica		421 415
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		~=~
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	• • • • • • • • •	319 361
XP 022291927.1 GIMAP 4-like Crassostrea virginica 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

 \overline{X} non conserved $\overline{X} \geq 50\%$ conserved