Avaga.UJR33052.1_hypothetical_protein_I4U23_020511 Egranulosus.XP_024350401.1_Phosphatidylinositol4ph				
Avaga.UJR21159.1_hypothetical_protein_I4U23_024258				
Avaga.UJR28330.1_hypothetical_protein_I4U23_009572				
Hsapiens.NP 001275701.1 phosphatidylinositol 4-pho			MAYSWQTDPNPNESHEKQYEHQEFLFV	NQPHSSSQVSLGFDQIVDEISGKIPH
Myessoensis.XP_021346813.1_phosphatidylinositol_45				
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp	MTTISE	DELRAALREEAAALEQE	FQRQRQTTWPGPSSQQSQVPSATQRRDTAPSG	TQRSTVGQQDGGSVGSRAPKSSTARP
Aplanci.LOC110975484_phosphatidylinositol_4phospha				
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph			MSSTQG	NGEHWKSLESVGISRRELAMAEALQM
Myessoensis.XP_021340378.1_phosphatidylinositol_4p	MNTNGVPILEKPPPLPPRORSEVRTS	OPPPIGWAMPEGNAWEE	PPTSTTATNNGOFSANNSLVSDSVNENRPTSA	PAFTNEOTASGASHESEKPNNIDIAE
Cintestinalis.LOC100175620 phosphatidylinositol 4p			MSDIKSALLMEAEAMORMKKNRDSTLR	VRGTGIVNPMCGLOTTSTNHOISNKT
Lanatina.XP_013408190.1_phosphatidylinositol_4phos		MSAPDPWKE	PLKFSTQPSQRLYPDLDSASSTSSKQNGNDQK	YQSDLEKALALSLETAETDRLKRWSQ
Avaga.UJR15173.1_hypothetical_protein_I4U23_002134				
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase		MSNQAF	HIDYDKQFQDDLAKATALSLEQHALDDYRRNK	KYGSGYQQSSTVAGRDYQAAQRSQSL
Egranulosus.XP_024352417.1_Phosphatidylinosito145b				
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho Myessoensis.XP_021367892.1_phosphatidylinositol_45				
Aplanci.LOC110976503_phosphatidylinositol_45bispho				
The state of the s				
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha				
Lanatina.XP_013391449.1_phosphatidylinositol_45bis				
Balens. NP_001293.2_phosphatidylinositol_4,5-bisp Belcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha Lanatina.XP_013391449.1_phosphatidylinositol_45bis Lanatina.XP_013391443.1_phosphatidylinositol_45bis Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b Cintestinalis.LOC100180112_phosphatidylinositol_45				
Hsapiens.NP_001269355.1_phosphatidylinosito1_4,5-b				MELE
Cintestinalis.LOC100180112_pnospnatidylinosito1_45			MINDLVRNSPLIKILLRLVSLYVM	SQSPKLSLSVPPDAFDIGSSDGEPFS
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase				MMMDNRAI.
Aplanci.LOC110979051_phosphatidylinositol_45bispho				
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp				
Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp				
Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp				
Myessoensis.XP_021346814.1_phosphatidylinositol_45 Lanatina.XP_013393940.1_phosphatidylinositol_45bis				
Lanatina XP 013393974 2 phosphatidylinositol 45his				
Egranulosus.XP 024352493.1 Phosphatidylinositol 3k				
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634				
Avaga.UJR36681.1_hypothetical_protein_I4U23_029398				
Aplanci.LOC110987621_phosphatidylinositol_3kinase_				
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase				
Myessoensis.XP_021360544.1_phosphatidylinositol_3k				
Lanatina.XP_013404834.1_phosphatidylinositol_3kina	0â 20â	40â		80â
Avaga.UJR33052.1_hypothetical_protein_I4U23_020511	MIDELPSYEYYTPSECYTT	AFED	SVSKTI.TSNVCSSIDII.I	PNGI
Egranulosus.XP_024350401.1Phosphatidylinositol4ph Avaga.UJR21159.1_hypothetical_protein_I4U23_024258 Avaga.UJR28330.1_hypothetical_protein_I4U23_009572 Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_45	AFTDSENVRANSPKTSVLEEFDPLFD	LKKK	DNAFSKTLRQPLRRTLQH	NQSLETN
Avaga.UJR21159.1_hypothetical_protein_I4U23_024258	MSSSNNEISPRQTNN		RRPLVSHLIL	PTNS
Avaga.UJR28330.1_hypothetical_protein_I4U23_009572				
Myssssonsis VP 021246012 1 phosphatidylinositol 45	YESEIDENIFFVPIAP	-KWDS	IGHSLNEAHQISLNEFI	SKSR
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp	TPAPREHVPRPI.PRPSSMGTIOTSGS	TSTS	AASSSAVSEGDI.TSFSSNSLODVI.KSAR	LSAPI.MAPGATALGSRPLTPGGIOSO
Aplanci.LOC110975484_phosphatidylinositol_4phospha				
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho				
Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph				
Myessoensis.XP_021340378.1_phosphatidylinositol_4p	ARREQNSLISLSPDNTLRQNQTPNNI	FSSDLEGIDFTTSAENN	NSDTAKEASGQSDSPEKGSPTKNYQEFRH	VFCDTAGGKEKSSLPKSETYP
nyessoelssis. Ar voliosolis. Dinosphatidylinositol_4p Cintestinalis. LOC100175620_phosphatidylinositol_4p Lanatina. XP_013408190.1_phosphatidylinositol_4phos Avaga. UNR5173.1_hypothetical_protein_14023_002134 Dmelanogaster. Pi3X68D_phosphatidylinositol_3kinase	FDADFCTVDCCTADDDDCCAAACVI	VCDF	VSSKIGVISINNDFNPFLIISN	NEIKSI TEKGSVOO
Avaga.UJR15173.1 hypothetical protein I4U23 002134			MSVPKKVLLDILL	PNGC
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase	HQPRRHSEVHQVAISPENAERSRTPP	AQGT	DNDLICFASPTSKQPESSSPFGKLIEDL	QRMQPTNPQSA
Egranulosus.XP_UZ435Z41/.1_Phosphat1dyl1hos1t0145b	MPPITLESSDHME	QH	CSSMKHDFLM	PNG1
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho Myessoensis.XP_021367892.1_phosphatidylinosito1_45	MSPSSTHSSASGE	LWGFPLM	PNKVYVDIFL	PNGI
Myessoensis.XP_021367892.1_phosphatidylinosito1_45	MPPSSGE	·LWG	HLMPQQVLVDCLL	PNGI
Aplanci.LOC110976503_phosphatidylinositol_45bispho Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp	MDDDDGGE	-LWGS	HFMPAKINIECLL	PTG1
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha				
Lanatina.XP_013391449.1_phosphatidylinositol_45bis	MPPSSGE	-LWGHHLM	PTQINVDCLL	PTGI
Lanatina.XP_013391443.1_phosphatidylinositol_45bis				
Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b	NYKQPVVLREDNCRRRRRMKPRSAAA	SLSS	MELIPIEFVL	PTSQRKC
Cintestinalis.LOC100180112_phosphatidylinositol_45 Cintestinalis.LOC100183611_phosphatidylinositol_45	PLPPEIQRLRNDSDPKSEFRRKKSRI	VKQN	PiPKVPVGFFSIIRTMTVDFVL	PNEK
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase				
Aplanci.LOC110979051_phosphatidylinosito1_45bispho				
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp				
Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp	MCFSFIMPPAMADILDIWA	VDSQIAS	DGSIPVDFLL	PTGI
Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp				
Myessoensis.XP_021346814.1_phosphatidylinositol_45 Lanatina.XP_013393940.1_phosphatidylinositol_45bis				
Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis			MEVITTY	
Egranulosus.XP 024352493.1 Phosphatidylinositol 3k			MELNQTCFH	SC
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634			MSTTSEKFHF	
Avaga.UJR36681.1_hypothetical_protein_I4U23_029398			MLEDRIQIKI	
Aplanci.LOC110987621_phosphatidylinositol_3kinase_			MADEFDRFYY	
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase Myessoensis.XP_021360544.1_phosphatidylinositol_3k			MCCMED DENY	
Lanatina.XP_013404834.1_phosphatidylinositol_3kina			MSGMIDRENI	
	0â 120â	140â		180â
Avaga.UJR33052.1_hypothetical_protein_I4U23_020511	VVCLKRDKFNTL	ADLRQ	ELRKRYGITWPFHFLS	
Egranulosus.XP_024350401.1_Phosphatidylinositol4ph				
Avaga.UJR21159.1_hypothetical_protein_I4U23_024258 Avaga.UJR28330.1_hypothetical_protein_I4U23_009572	EISSKSAP	PVVTV	SKFFNPNPENQLVPDLLDIF	NI
Heapiene ND 001275701 1 phosphatidelinosit-1 4	EI SMHONSKyby	TGESD	CAL DEDUNTARE CONCORTO	
Hsapiens.NP 001275701.1 phosphatidylinositol 4-pho	ELSWHQVSKAPA	IGFSP	SVLPKPQNTNKECSWGSPIG	KHHGA
Hsapiens.NP_001275701.1_phosphatidylinosito1_4-pho Myessoensis.XP_021346813.1_phosphatidylinosito1_45	ELSWHQVSKAPA	IGFSP	SVLPKPQNTNKECSWGSPIG	KHHGA
Hsapiens.NP 001275701.1 phosphatidylinositol 4-pho	ELSWHQVSKAPA	IGFSP PFS-ATSST	SVLPKPQNTNKECSWGSPIG NPFSASSSAWNGRPLSFDTNTAAPMPQL	PPHSPVVPHNSALFVSNPSFGDTTLW
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_45 Bbelcheri.LOC109481794_phosphatidylinositol_4phosp Aplanci.LOC110975484_phosphatidylinositol_4phospha Hsapiens.NP_001346263.1_phosphatidylinositol_4-pho	ELSWHQVSKAPA	IGFSP PS-ATSST	SVLPKPQNTNKECSWGSPIGNPFSASSSAWNGRPLSFDTNTAAPMPQLEPWMPGS	PPHSPVVPHNSALFVSNPSFGDTTLW
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_45 Bbelcheri.LOC109481794_phosphatidylinositol_4phosp Aplanci.LOC110975484_phosphatidylinositol_4phospha Hsapiens.NP_001364263.1_phosphatidylinositol_4-phospha Hsapiens.NP_002636.2_phosphatidylinositol_4-phospha	ELSWHQVSKAPA	IGFSP PFS-ATSST MAKP GPPNH	SVLPKPQNTNKECSWGSPIG	KHHGA PPHSPVVPHNSALFVSNPSFGDTTLW KQAAFQNGFNPRMPTFPSTEPIYLSL
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_45 Bbelcheri.LOC109481794_phosphatidylinositol_4phosp Aplanci.LOC110975484_phosphatidylinositol_4phospha Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph Myessoensis.XP_021340378.1_phosphatidylinositol_4p	ELSWHQVSKAPA	PFS-ATSST	SVLPKPQNTNKECSWGSPIG	KHHGA PPHSPVVPHNSALFVSNPSFGDTTLW KQAAFQNGFNPRMPTFPSTEPIYLSL SLSLTSNPFSNVAPTLPVRSCSTFSD
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_45 Bbelcheri.LOC109481794_phosphatidylinositol_4phosp Aplanci.LOC110975484_phosphatidylinositol_4-phospha Hsapiens.NP_001364263.1_phosphatidylinositol_4-phospha Myessoensis.XP_021340378.1_phosphatidylinositol_4-piosphatylinositol_4phosphatidylinositol_4	RPATFSVGDFQSNGILSSTGSASLNF DPTLNYNSLSFQE- KKTPVLPVTPILSPSFSAQLYFR- QTSGNTGLQYGMNSNLFNNDPWRPFGPWSNSSTYHKTL-	IGFSP	SVLPKPQNTNKECSWGSPIG	KHHGA PPHSPVVPHNSALFVSNPSFGDTTLW KQAAFQNGFNPRMPTFPSTEPIYLSL SLSLTSNPFSNVAPTLFVRSCSTFSDSPS
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_45 Bbelcheri.LOC109481794_phosphatidylinositol_4phosp Aplanci.LOC110975484_phosphatidylinositol_4phospha Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph Myessoensis.XP_021340378.1_phosphatidylinositol_4p	RPATFSVGDFQSNGILSSTGSASLNE DPTLNYNSLSPQE		SVLPKPQNTNKECSWGSPIG	PPHSPVVPHNSALFVSNPSFGDTTLW KQAAFQNGFNPRMPTFPSTEPIYLSL SLSLTSNPFSNVAPTLPVRSCSTFSDSPSSPS

B 1 10 004050417 1 B1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
				PLYECLG
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho				
Myessoensis.XP_021367892.1_phosphatidylinositol_45	LVQLFVNRDATL	ESIKA	NVWIEARKF	PLYHLLL
Aplanci.LOC110976503_phosphatidylinositol_45bispho Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp	IVPLECVREATL	TTTKH	TTMKEAKKTI	PI HOT I O
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha	MITLDVPREATL	EHIKG	DLWREARKYI	PLFHKLQ
Lanatina.XP_013391449.1_phosphatidylinositol_45bis	IVCLRCNRDATL	ESIKG	DLWKEAKKYI	PLFYLLS
Lanatina.XP_013391443.1_phosphatidylinositol_45bis				
<pre>Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b Cintestinalis.LOC100180112_phosphatidylinositol_45</pre>	KSPETALLHVAGHGNV	EQMKA	QVWLRALETSVAAI	PFYHRLG
Cintestinalis.LOC100180112_phosphatidylinositol_45	YTPIDIPRNSTI	KEVKN	LLWOEATHH	AIEKVW
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase				
Aplanci.LOC110979051_phosphatidylinositol_45bispho	VIPLKCKRDATI	TSIKR	DLWREAKTYI	PLYQTLL
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp	YIPLTCSKDATI	EQIKK	DLWQEARTYI	PLYSELA
Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp				
Myessoensis.XP_021346814.1_phosphatidylinositol_45				
Lanatina.XP_013393940.1_phosphatidylinositol_45bis		MRN		
Lanatina.XP_013393974.2_phosphatidylinositol_45bis	MCVLYC			PVFPRLG
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k Avaga.UJR09391.1_hypothetical_protein_I4U23_013634	DLKEEFKGKSAL		LSLTGFKPED	
Avaga.UJR36681.1_hypothetical_protein_I4U23_029398		·	SSIDGDRTQQ	
Aplanci.LOC110987621_phosphatidylinositol_3kinase_	VYSCDLNASV	QIKV	GTLEGKR	
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase	IYSCDLDINV	QLKI	GSLEGKR	
Myessoensis.XP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina	VYSCDLDVNV	EIKI	GTLEGER	
20		20â 240â		
Avaga.UJR33052.1 hypothetical protein I4U23 020511			ITHTFTNETGDIL	-LDEQQSLDILGLVYPFVRVSDKGE
Paranulagua VD 024250401 1 Dhoamhatidulinagital4mh	CUCCAT DMT		TTUD CTCND PUVD.	OOVDONE CDIONITTE TOTCI I NEN VAUENCEDHI DCTV
Avaga.UJR21159.1_hypothetical_protein_I4U23_024258 Avaga.UJR28330.1_hypothetical_protein_I4U23_009572	PEDNATNF		SCRNSPSSDNLID	-VSNPNDLSFFDIFDPLKQTASVTSNIAQVSTSALLPSS
Hsapiens.NP 001275701.1 phosphatidvlinositol 4-pho	DDSRFSILAPSF		TSLDKINLEKELE	-NENHNYHIGFESSIPPTNSSFSSDFMPKEENKRSGHVN
Myessoensis.XP 021346813.1 phosphatidylinositol 45				
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp	GQPDASSLNFSAQMSVGAZ	ASSSRPQ	SLSSSSSGERTSM-	-AANFASLTDELLFTDYRNPAISVTKTAPGPAGAAAAAA
Aplanci.LOC110975484_phosphatidylinositol_4phospha			MFT	-LSAGKKTEAARVF
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph	DYLYIFDGSDGGVSSSI	PGPG	DIEGSCKKLSPPP	-LPPRASIWDTPPLPPRKGSPSSSKISQPSDINTFSLVE
Myessoensis.XP 021340378.1 phosphatidylinositol 4p	ADFNTVVLPP		TSTGVHGNSVNLS	-QSSTNASHLQNLFELDNISQWERDLSEGKSNSEKSNDL
Myessoensis.XP_021340378.1_phosphatidylinosito1_4p Cintestinalis.LOC100175620_phosphatidylinosito1_4p	TSSEDMFFKTTSV		DSRVKPFPAVNYR	-NNSTQQSMDLNNWKDLHNLYMLPRTQSFTHQPFKRSNQ
Lanatina.XP_013408190.1_phosphatidylinositol_4phos	SRDNPARWSSGSSSSRTSV	IGLVNSSHPPQGASCLVSPRQSAGNP	LNLTTTTLPALNPML	-SRSDQSLNSLSSWDPQSIHSNSNSAVSSTSEQD
Avaga.UJR15173.1_hypothetical_protein_I4U23_002134				
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase Egranulosus.XP_024352417.1_Phosphatidylinositol45b				
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho	-ENNAYVF		VGVTKDAETEEF-	-YDEHRRLCDIHLFQPILKLTAAKGNREEKMLKQ
Myessoensis.XP_021367892.1_phosphatidylinositol_45	-DPASYIF		VSITQDAEKEEF-	YDETRRLCDLRLFQPVL-KVVEPKGNRE-EK
Aplanci.LOC110976503_phosphatidylinositol_45bispho Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp	-DASSYIF		VTITQDAEREEF-	-YDEGRRLCDLRLFQPWL-KVVEPAGNRE-EK
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha	-DESSIIF		TSTTOEAEKEEF	-YDETRRECDIRIFQFF L-KVTEPRGNREEK
Lanatina.XP_013391449.1_phosphatidylinositol_45bis	-DPASYIF		VSITQDAEREEF-	-YDETRRLCDLRLFQPIL-KLVEPKGNRAEK
Lanatina.XP_013391443.1_phosphatidylinositol_45bis				
Hsapiens.NP_001269355.1_phosphatidylinosito1_4,5-b Cintestinalis.LOC100180112_phosphatidylinosito1_45	PHHFLL		LYQKKGQWYEIYDI	(YQVVQTLDCLRYWKATHRSPGQIHLVQRHPPSEESQAFQR
Cintestinalis IOC100102611 phosphatidulinositel 45	-NDFCVTF		TVTTCCCIDECT -	Wheels coult are swill to work a result to
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase	-EACEY		QVYGISTFNIEPY	-TDETKRLSEVQPYFGILSLGERTDTTSFSSDYELTK
Aplanci.LOC110979051_phosphatidylinositol_45bispho	-DLNFYIF		QCVNQSAEQEEL	-LDGNRRLCDVKPFWPML-RVVRKASDVEDK
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp	-EIQSYVF		MCINQTAEQEEL-	-HEEQRRLCDVRPFRPVL-KLVQKKKDPAA-VEK
			ACVNQIAVIEEL	-EDETRRECOVRPFEPVL-REVIRSCOPGEREDS
Hsapiens.NP 005017.3 phosphatidylinositol 4.5-bisp	-DIDSYMF			-EDEOKKLCDVOPFLPVL-KLVAKEGDKVKK
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase Aplanci.LOC110979051_phosphatidylinositol_45bispho Bbelcheri.LOC109480004_phosphatidylinositol_45bispho Bbelcheri.LOC109480004_phosphatidylinositol_4,5-bisp Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp Myessoensis.XP_02346814.1_phosphatidylinositol_45				
Myessoensis.XP_021346814.1_phosphatidylinositol_45 Lanatina.XP_013393940.1_phosphatidylinositol_45bis				
Myessoensis.XP_021346814.1_phosphatidylinosito1_45 Lanatina.XP_013393940.1_phosphatidylinosito1_45bis Lanatina.XP_013393974.2_phosphatidylinosito1_45bis				
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_phosphatidylinositol_38 Myazg.HUB03301			FKTINGQYNSLAC	-YGEVRVAYCITRF
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_phosphatidylinositol_38 Myazg.HUB03301			FKTINGQYNSLAC	-YGEVRVAYCITRF
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_phosphatidylinositol_38 Lanatina.XP_01301.1_bisphatids_1_profess_1013634			FKTINGQYNSLAC	-YGEVRVAYCITRF
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_phosphatidylinositol_38 Lanatina.XP_01301.1_bisphatids_1_profess_1013634			FKTINGQYNSLAC	-YGEVRVAYCITRF
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_phosphatidylinositol_3k Avaga.UJR09391.1_hypothetical_protein_14U23_013634 Avaga.UJR36681.1_hypothetical_protein_14U23_029398 Aplanci.LOC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase Myessoensis.XP_021360544.1_phosphatidylinositol_3k			FKTINGQYNSLAC ETSINDLFF QQQTEQPISDIFF 	-YGEVRVAYCITRF
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_phosphatidylinositol_35bis Egranulosus.XP_024352493.1_phosphatidylinositol_38 Avaga.UJR36681.1_hypothetical_protein_I4U23_013634 Avaga.UJR36681.1_hypothetical_protein_I4U23_029398 Aplanci.LOC110987621_phosphatidylinositol_3*kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3*kinase_ Myessoensis.XP_021360544.1_phosphatidylinositol_3*kinase_ Lanatina.XP_013404834.1_phosphatidylinositol_3kinas_ 30	à 33		FKTINGQYNSLACETSINDLFFQQQTEQPISDIFFDRLSYKSLIEQKSYKAVLERPSYTELLDRFGYKQLV- 366	-YGEVRVAYCITRF
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Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_35 Avaga.UJR36881.1_hypothetical_protein_I4U23_013634 Avaga.UJR36881.1_hypothetical_protein_I4U23_029398 Aplanci.LoC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_ Myessoensis.XP_021360544.1_phosphatidylinositol_3kinase_ Hsapiens.NP_0013404834.1_phosphatidylinositol_3kinase_ Myessoensis.XP_024350401.1_Phosphatidylinositol_3kinase_ Avaga.UJR33052.1_hypothetical_protein_I4U23_020512 Egranulosus.XP_024350401.1_Phosphatidylinositol_4phavaga.UJR28330.1_hypothetical_protein_I4U23_004258 Avaga.UJR28330.1_hypothetical_protein_I4U23_004528 Hsapiens.NP_001275701.1_phosphatidylinositol_4phosphatiapsionsis.XP_021346813.1_phosphatidylinositol_4phosphatiapsiens.NP_001364263.1_phosphatidylinositol_4phosphatiapsiens.NP_001364263.1_phosphatidylinositol_4phosphatiapsiens.XP_02340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021367892.1_phosphatidylinositol_4biscintestinalis.IoC100180252_LOW_QUALITY_PROTEIN_phosphatiansiensiensiensiensiensiensiensiensiensie	DA 3: NTFPT	20å 340å		YGEVRVAYCITRF- TDSSSFVRNIN- SNNPSFIRNLS- DDPOLRFSGLY- EDPMLKFSGLY- EDSMLKFSGLY- NDPLLRFSGAC- AS 3803 JROSDME-SLIQFTEQLVE- NAYIFDAIYGSASSYCLRYNIK- EMKPFNQLVEQIRNECQTKQTS
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_phosphatidylinositol_38haga.UJR36861.1_hypothetical_protein_I4U23_013634 Avaga.UJR36861.1_hypothetical_protein_I4U23_029388 Aplanci.LoC110987621_phosphatidylinositol_3kinase_Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_Hsapiens.XP_013405484.1_phosphatidylinositol_3kinasa_Avaga.UJR33052.1_hypothetical_protein_I4U23_020511 Egranulosus.XP_024350401.1_phosphatidylinositol_49havaga.UJR28330.1_hypothetical_protein_I4U23_020511 Egranulosus.XP_024350401.1_phosphatidylinositol_49hox Myeasoensis.XP_02136613.1_phosphatidylinositol_49hox Myeasoensis.XP_02136613.1_phosphatidylinositol_49hox Byeasoensis.XP_02136613.1_phosphatidylinositol_49hox Bylanci.LoC1109767484_phosphatidylinositol_49hospha Hsapiens.NP_001364263.1_phosphatidylinositol_49hospha Hsapiens.XP_021340378.1_phosphatidylinositol_49hospha Hsapiens.XP_021340378.1_phosphatidylinositol_49hospha Hsapiens.XP_021340378.1_phosphatidylinositol_49hospha Avaga.UJR1573.1_hypothetical_protein_I4U23_002134 Dmelanogaster.Pi3K68D_phosphatidylinositol_49hos Avaga.UJR1573.1_hypothetical_protein_I4U23_002134 Dmelanogaster.Pi3K68D_phosphatidylinositol_45bis Cintestinalis.LoC100180125_LOW_0UALITY_PROTEIN_phosphatianistol_45bisholeheri.LoC10976503_phosphatidylinositol_45bisholeheri.LoC10976903_phosphatidylinositol_45bisholeheri.LoC10976903_phosphatidylinositol_45bisholeheri.LoC10976903_phosphatidylinositol_45bisholeheri.LoC10976903_phosphatidylinositol_45bisholeheri.LoC10976903_phosphatidylinositol_45bisholeheri.LoC10976903_phosphatidylinositol_45bisholeheri.LoC10976903_phosphatidylinositol_45bisholeheri.LoC109769051_phosphatidylinositol_45bisholeheri.LoC109769055_phosphatidylinositol_45bisholeheri.LoC109769055_phosphatidylinositol_45bisholeheri.LoC109769050_phosphatidylinositol_45bisholeheri.LoC109769050_phosphatidylinositol_45bisholeheri.LoC1097690	Dâ 3: NTFPT	20â 340â		-YGEVRVAYCITRF -TDSSSFVRNLNTDSSSFVRNLNTDSSSFVRNLNSNNPSFIRNLSDDPQLKFSGLYEDPMLKFSGLYEDSMLKFSGLYEDSMLKFSGLYEDSMLKFSGAYNDPLLRFSGAC380â 7DQSDMESLIQFTEQLVE
Myessoensis.XP_021346814.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393940.1_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_35 Avaga.UJR36881.1_hypothetical_protein_I4U23_013634 Avaga.UJR36881.1_hypothetical_protein_I4U23_029398 Aplanci.LoC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_ Myessoensis.XP_021360544.1_phosphatidylinositol_3kinase_ Hsapiens.NP_0013404834.1_phosphatidylinositol_3kinase_ Myessoensis.XP_024350401.1_Phosphatidylinositol_3kinase_ Avaga.UJR33052.1_hypothetical_protein_I4U23_020512 Egranulosus.XP_024350401.1_Phosphatidylinositol_4phavaga.UJR28330.1_hypothetical_protein_I4U23_004258 Avaga.UJR28330.1_hypothetical_protein_I4U23_004528 Hsapiens.NP_001275701.1_phosphatidylinositol_4phosphatiapsionsis.XP_021346813.1_phosphatidylinositol_4phosphatiapsiens.NP_001364263.1_phosphatidylinositol_4phosphatiapsiens.NP_001364263.1_phosphatidylinositol_4phosphatiapsiens.XP_02340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021340378.1_phosphatidylinositol_4phosphatiapsiens.XP_021367892.1_phosphatidylinositol_4biscintestinalis.IoC100180252_LOW_QUALITY_PROTEIN_phosphatiansiensiensiensiensiensiensiensiensiensie	AS 33 NTFPT	.0å 340å		YGEVRVAYCITRF- TDSSSFVRNIN- SNNPSFIRNLS- DDPOLRFSGLY- EDPMLKFSGLY- EDSMLKFSGLY- NPPLLRFSGLC- AS 380.8 380.

Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp	LINSQISLL	IGKGLHEFDS	SLCDPEV	/NDFRAKMCQFCEEAAAR	
Myessoensis.XP 021346814.1 phosphatidylinositol 45					
Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis		HEEDS	PEV	TDFRQNMRRKAEEIAQE	
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k		FPLTMHRFGF	W	SVIRPTRDNYSD	
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634		DTKRSEPFVV	/CQ1	FSDGQSLCLPVQTSFKS	
Avaga.UJR36681.1_hypothetical_protein_I4U23_029398		DAKRSEPYVI	.CQ1	FADGQSLCNPLQTSYKS	
Aplanci.LOC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase		EDRCSDLCVI	.c0/	/FADGKPLTLPTSTSYKA /FAEGKPLALPVRTSYKA	
Myessoensis.XP_021360544.1_phosphatidylinositol_3k		TEGCADLYVI	Q/	FSDGRPLSLAVSTSYKA	
Lanatina XP 013404834 1 phosphatidylinositol 3kina		KDSCSDI.YV7	C	/YADGKPI.TI.PVRTAYKA	
40 Avaga.UJR33052.1_hypothetical_protein_I4U23_020511	0â 420â	44	10â 460â	480â	D
Egranulogue VD 02/350/01 1 Phoenhatidulinogitol/nh	DST.HDDWH	TNDCTTVTV-		DDMDOTAEV	NVPC
Avaga.UJR21159.1_hypothetical_protein_14U23_024258 Avaga.UJR28330.1_hypothetical_protein_14U23_009572		IDDICYCK-			
Avaga.UJR28330.1_hypothetical_protein_I4U23_009572					
Hsapiens.NP_001275701.1_phosphatidylinosito1_4-pho Myessoensis.XP_021346813.1_phosphatidylinosito1_45	LASFCN	KVKKIRERY- WOAFV-YKY-		HAADV	N
Bbelcheri.LOC109481794 phosphatidylinositol 4phosp	PPLPPKTSKRRTLAAPSDGSMTV	PAWKPQQTYAR-		RDSADGCMTVP.	ARKSPVASAKEEKRP
Aplanci.LOC110975484 phosphatidylinositol 4phospha	DAVT				NPGY
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph	SKTMPPQVPPRTYASRYGNRKNA	ATPGKNRRISAA-		PVGSRPHTVANGHE	LFEVSEERDEEVAAF
Myessoensis.XP_021340378.1_phosphatidylinositol_4p	LERKVNGKSLS	SVAIVIKSQSLN-		TRITQLAKAQGHI	DDDDDDDDTKSSTKI.Y
Cintestinalis LOCI00175620 phosphatidulinositol 4p	DVKEOTSTPGVFDTEGVKOO	PDWIFWDPI.HO-	TGSEV	NSSKDAT.APDASPSANTSPSKVO	SMSPARERDIEGI.YD
Lanatina.XP_013408190.1_phosphatidylinosito1_4phos Avaga.UJR15173.1_hypothetical_protein_I4U23_002134	LAWGGASETYRALTDSVN	FEGLSCGEY-		VPDFDLQDPFS	ITELSRVQESKKKKD
Avaga.UJR15173.1_hypothetical_protein_I4U23_002134 Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase	DLKRNG	IQEHGSSHE-	ODCECCOVCUADDEECL VI AEN	ACCUT CDDDDI DDDNOOCVECNO	N
Egranulosus.XP_024352417.1_Phosphatidylinosito145b	QISDPMIEAVNRWDRIVAI	.vspnvgligwkQDFl: PVSMAHYI.T-			AASLO
Cintestinalis.LOC100180252 LOW OUALITY PROTEIN pho	RNRCC	-DPHALIAYCY-		PPRVE	PS
Myessoensis.XP_021367892.1_phosphatidylinositol_45	RESAG	KESLALYAY-		PPNVE	ST
Aplanci.LOC110976503_phosphatidylinositol_45bispho	RERQG	KAEHAMYVY-		PPN	TYIS
Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha	RDSDG	LTGOSLYVY-		PPNVE	SS
Lanatina.XP_013391449.1_phosphatidylinositol_45bis Lanatina.XP_013391443.1_phosphatidylinositol_45bis	RDSKG	LHTQAIYVY-		PPDIV	SN
Lanatina.XP_013391443.1_phosphatidylinositol_45bis					
Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b Cintestinalis.LOC100180112_phosphatidylinositol_45		RDPKLYAMH-			PWVTS
Cintestinalis.LOC100180112_phosphatidylinosito1_45	RDTLH	KFF5115ME-			SLLO
Dmelanogaster.Pi3K92E phosphatidylinositol 3kinase	RSAYT	WQQRLLYEH-			PLRL
Aplanci.LOC110979051_phosphatidylinositol_45bispho	RASWE	WEKKATYLF-		PPQVG	AS
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp	RKEKS	WVERLQYQF-		PPRLE	CS
Hsapiens.NP_006210.1_phosphatidylinosito1_4,5-bisp Hsapiens.NP_005017.3_phosphatidylinosito1_4,5-bisp	ROOLG	WEAWLQYSF-			PLQL
Mvessoensis.XP U21346814.1 phosphatidvlinositol 45					
Lanatina.XP_013393940.1_phosphatidylinositol_45bis	RKKMT	LLEKAKYLY-		PPNLD	NN
Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_3k	RKKMT	LLEKAKYLY-		PPNLD	NN
Avaga.UJR09391.1 hypothetical protein I4U23 013634	FVDKWN	WNEWLTL			PLRY
Avaga.UJR36681.1_hypothetical_protein_I4U23_029398	FIDKWN	WNEWLTL			PLRY
Aplanci.LOC110987621_phosphatidylinositol_3kinase_	FITRWN	WNEWLTL			PVKF
	Dompray				D
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase Myessoensis.XP 021360544.1 phosphatidylinositol 3k	FSTRWN	WNEWLKL			PVKY
Myessoensis.XP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina	FSTRWN	WNEWLKL WNEWLVL			PVKY PVKY PVKY
Myessoensis.XP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina	FSTRWN	WNEWLKL WNEWLVL			PVKY PVKY PVKY
Myessoensis.XP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina Solavaga.UJR33052.1_hypothetical_protein_14U23_020511	FSTRWN FSTRWN Dâ 520â STMPQEILHAPPSISHT-ILSNI	WNEWLKL WNEWLVL WNEWLTL 54	10â 560â	580â	PVKY
Myessoensis.XP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina 50 Avaga.UJR33052.1_hypothetical_protein_14U23_020511 Egranulosus.XP_024350401.1_phosphatidylinositol4ph Avaga.UJR21159.1 hypothetical_protein_14U23_024258	FSTRWN Dâ 520â STMPQEILHAPPSISHT-ILSNI PDGLDNIDLKIYIPMPA-YFCNR -HIQRLTSQHIEQTQQS-VTLHI	WNEWLKL WNEWLVL WNEWLTL 54 EDSFLVYIERRKK RYIDTVRNWLKER	10â 560â SYTCV!	580â	PVKYPVKY
Myessoensis.XP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina Savaga.UJR33052.1_hypothetical_protein_14U23_020511 Egranulosus.XP_024350401.1_Phosphatidylinositol4ph Avaga.UJR21159.1_hypothetical_protein_14U23_024258 Avaga.UJR28330.1_bypothetical_protein_14U23_009572	FSTRWN Dâ 520â STMPQEILHAPPSISHT-ILSNI PDGLDNIDLKIYIPMPA-YFCNR -HIQRLTSQHIEQTQQS-VTLHI		10â 560â 	580â	PVKYPVKYPVKY
Myessoensis.XP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina 50 Avaga.UJR33052.1_hypothetical_protein_I4U23_020511 Egranulosus.XP_024350401.1_phosphatidylinositol4ph Avaga.UJR21159.1_hypothetical_protein_I4U23_024258 Avaga.UJR28330.1_hypothetical_protein_I4U23_009572 Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho		WNEWLKLWNEWLVLWNEWLTL 54 CDSFLVYIERRKK RYIDTVRNWLKER FRNSDAKEPLRLT		580â	PVKY
Myessoensis.KP_021360544.1_phosphatidylinositol_3k Lanatina.XP_013404834.1_phosphatidylinositol_3kina 50 Avaga.UJR33052.1_hypothetical_protein_14U23_020511 Egranulosus.XP_024350401.1_phosphatidylinositol4ph Avaga.UJR21159.1_hypothetical_protein_14U23_024258 Avaga.UJR28330.1_hypothetical_protein_14U23_029572 Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_45 Bbelcheri.LOC109481794 phosphatidylinositol_44 hosp			10å 560åSYTCVI	580â	
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Avaga.UNIR3310.1_phopshetical_protein_id03_009572 KPOVM Myessonsia_KP_02137801.1_phopshetidylinositol_4 = pho KSYTQLHQOKSREAPGKLSRNHEEDBSQF_YLNQLEPHHINKVSRCLILIEKYDPHLYLLKTQE Myessonsia_KP_021348813.1_phopshetidylinositol_4 = pho KSYTQLHQOKSREAPGKLSRNHEEDBSQF_YLNQLEPHHINKVSRREQUIVARFYNEEDKLRSHNSS			
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Myessoensis.NP.021340378.1_phosphatidylinositol_49 DOINFILM——REQUELPERTYDODAQMINFERDYIKTOGLELLINIFTUYEKLERUFUKNEETREFESIOQ— Cintestinais.LoCl0017650_phosphatidylinositol_49hos DEDIRLING——KEEDITKDLAKYPEDEKEKPTUSES——DOIGILDAYFEAREKTIAT——BAYAGA.UNIS173.1_hypothetical_protein_fdv23_00213 MEPIFRILT——NESTYUGKKECKLAWQEAUKGECKLAWGEAUKGEAUKGEAUKGEAUKGEAUKGEAUKGECKLAWGEAUKGEAUKGEAUKGEAUKGEAUKGEAUKGEAUKGEAUK			
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Janatina.XP_013408190.1_phosphatidylinositol_4phos DEDIRINYRIEDTURKQLARVPIDDREFIUVRREFHTRNAYSODHIRTLLETTEKEVERIRAIATEP Awaga.UNIS173.1_hpyophatidylinositol_3binase EKDVHLGLCISTAAMMQAIARTERDDERIDALIPHILIPROVYPITYDNMILIETLEMEIDRIESSAD-OVG Dmelanogaster.Pi3K6B0_phosphatidylinositol_3binase EKDVHLGLCISTAAMMQAIARTERDDERIDALIPHILIPROVYPITYDNMILIETLEMEIDRIESSAD-OVG Description D	Cintestinalis.LOC100175620 phosphatidylinositol 4p	EODVTLELVHKTNIDHSLRRTHDDDNKOTVMKEFLSELGKPSTVLSR	DDIOILIDAFYKEAEKLIDLVKTEPGEAVLTOOCDI
Dmelanogaster_Planes_Ro_Opaspatidy_inositol_sinase_RO_NUBLILLS_TANNUBLILLS_TANNUBLILLS_PRINTERS_PLANES_PLAN	Lanatina.XP_013408190.1_phosphatidylinositol_4phos	DEDIRLIMVKLEDLTKQLARVPLDDRKPLVVHRPETHTRNAVSQ	DHLKILLETFDKEVEKIRAIATEKTLSKLQPK
Dmelanogaster_Planes_Ro_Opaspatidy_inositol_sinase_RO_NUBLILLS_TANNUBLILLS_TANNUBLILLS_PRINTERS_PLANES_PLAN	Avaga.UJR15173.1_hypothetical_protein_I4U23_002134	DKPLYFKLINIESTVGNGKKRCLAMIQEAIKQEEERKKPQKFGGRS	
Cintestinalis.LOC100180252_LOM_QUALITY_PROTEIN_pho DELEPOWLE——SYMOVLARIPPHLEYMONNHERNEKSEPINS——ALLDINN—MPSSSORIS, NP. 201367892_L phosphatidylinositol_45-bispho KRTPGIMIM——SEESV——INSLEDUTEPLEYMERAPP——TLERNN—Haspiens.NP. 006209.2_phosphatidylinositol_45-bispho KRTPGIMIM——SKEVV——YASLPESTPHLEYMARKSS——ATVENNGE—Haspiens.NP. 0013931443.1_phosphatidylinositol_45-bis NOTPGIMIM——SKEVV——YASLPESTPHLEYMARKSSS——ALGINN——ALGINN——SHEV——TPPPALDEVRKEEMPLUDGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase	EKDVHLGLCLSTAANMQAIARTERDDEHDADLLPEHLLPNEVVPIVTY	DNMMILIETLEMEIDKLESAADGVPGRSVVSCS
Myessoensis.XP_021367892.l_phosphatidylinositol_450 http://www.mostestor.wise.com/phosphatidylinositol_450 http://www.mostestor.wise.com/phosphatidylinositol_4			
Baspiens.NP_006209.2_phosphatidylinositol_4.5-bisp GRMPNIMIMAKESLXSQLPMOCTYMESYSRRISSALVINSTOT- Lanatian, XP_013391449.1_phosphatidylinositol_45bis NGIPQIMIMSKDGVXSALPERNYTVPSYVRRGISALVINSTOT- Lanatian, XP_013391449.1_phosphatidylinositol_45bis Hsapiens.NP_001269355.1_phosphatidylinositol_45 bis Hsapiens.NP_001269355.1_phosphatidylinositol_45 bisplands 45 bisplands Hsapiens.NP_001269355.1_phosphatidylinositol_45 bisplands 45 bisplands Hsapiens.NP_001269355.1_phosphatidylinositol_45 bisplands 45 bisplands Hsapiens.NP_001269355.1_phosphatidylinositol_45 bisplands Hsapiens.NP_001269355.1_phosphatidylinositol_45 bisplands Hsapiens.NP_001261.1_phosphatidylinositol_45 bisplands Hsapiens.NP_001261.1_phosphatidylinositol_45 bisplands Hsapiens.NP_001261.1_phosphatidylinositol_45 bisplands Hsapiens.NP_005017.3_phosphatidylinositol_45 bisplands Hsapiens.NP_001303074 2_phosphatidylinositol_45 bisplands Hsapiens.NP_005017.3_phosphatidylinositol_45 bisplands Hsapiens.NP_001303074 2_phosphatidylinositol_45 bisplands Hsapiens.NP_001303074 Hsapiens.NP_	Myessoensis.XP_021367892.1_phosphatidylinositol_45	DKIPQFMLLTREGIYAALPENNFAMPSYAQRGLQ	ALLDINN
Bebelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha TRFPNIMIM	Aplanci.LOC110976503_phosphatidylinositol_45bispho	KKTPQLMLMSRESVLNSLPDVTFPLPSYMRRAPP	TLPRDN
Lanatian, XP_013391449.1_phosphatidylinositol_45bis	Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp	GRMPNLMLMAKESLYSQLPMDCFTMPSYSRRIST	ATPYMNGE
Haspiens.NP_001269351_1_phosphatidylinositol_45	Lanatina.XP 013391449.1 phosphatidylinositol 45bis	NOTPOLMIMSKDGVYASI,PKNVYTVPSYVKRGIS	AI.ODTNN
Cintestinalis. LOC10180112_phosphatidylinositol_45 RREPQLALCUPPNDAEDEV	T VD 012201442 1		
Cintestinalis. LOC10180112_phosphatidylinositol_45 RREPQLALCUPPNDAEDEV	Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b	GEEIHVVLDTPPDPALDEVRKEEWPLVDDCTGVTGYH	EQLTIHGKDH
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinses SAVPNVVLQ	Cintestinalis.LOC100180112_phosphatidylinositol_45	RREPQLALCVPPNDAEDEVLSVHDPWFFVDDSTGVTENH	QQLTLVGCKKNH
Aplanci.LOC110979051_phosphatidylinositol_45bispho DIRPELLLL	Dmelanogaster.Pi3K92E phosphatidylinositol_3bipage	GIVSSIAAPPVVSLVHVASVKKILPQQYQLLKKVQTNFAPPVPEKHSAVPNVVI.OSVYRI PSVINHUMPOAM/T	KRPI.PKKRTVHI.H
Beblcheri LOC109480004_phosphatidylinositol_4,5-bisp ATTPQLMLV	Aplanci.LOC110979051_phosphatidylinositol_45bispho	DIRPELLLLQKADMKVDENFVNPMLTALLQK	EEESPSIPP
Hsapiens.NP_005017.3_phosphatidylinositol_45-bisp GLTPHLTMVHSSSI	Bbelcheri.LOC109480004 phosphatidylinositol 45bisp	ATTPOLMLVKLDNIDLESVTSPTTPDP	EGPPPLPCKO
Myessoensis.KP_021346814.1_phosphatidylinositol_45bis_GKIPHLIMTLKSRVPGLEDAVSENGISNSCPSPVPPPRPFKRGNTPSHSPKKPLKVNVPSPLRTDRR Lanatina.XP_013393974.2_phosphatidylinositol_45bis_GKIPHLIMTLKSRVPGLEDAVSENGISNSCPSPVPPPRPFKRGNTPSHSPKKPLKVNVPSPLRTDRR Egranulosus.XP_024352493.1_Phosphatidylinositol_3b_DGKPRGL			
Lanatina.XP_013393940.1_phosphatidylinositol_45bis GKIPHLIMTLKSRVPGLEDAVSENGISNSCPSPVPPPRPFKRGNTPSHSPKKPLKVNVPSPLRTDRR Egranulosus.XP_024352493.1_phosphatidylinositol_3k DGKPRGL	msaprens.NP_UUDUI/.3_pnosphatidylinositol_4,5-bisp	GLIPHLIMVHSSSILAMRDEQSNPAPQVQKPR	ANPPPIPA
Lanatina XP_013393974.2_phosphatidylinositol_45bis GKTPHLIMTLKSRVPGLEDAVSENGISNSCPSPVPPPRPFKRGNTPSHSPKKPLKVNVPSPLRTDRR Egranulosus.XP_024352493.1_phosphatidylinositol_35b GKKPRGL	Lanatina.XP_013393940.1_phosphatidylinositol_45bis	GKIPHLLMTLKSRVPGLEDAVSENGISNSCPSPVPPPRPPKPKRGNT	PSHSPKKPLKVNVPSPLRTDRR
Avaga.UJR30391_1_hypothetical_protein_I4U23_029398	Lanatina.XP_013393974.2_phosphatidylinositol_45bis	GKIPHLLMTLKSRVPGLEDAVSENGISNSCPSPVPPPRPPKPKRGNT	PSHSPKKPLKVNVPSPLRTDRR
Avaga_UJR33681.1_hypothetical_protein_I4U23_02938 GKTDISNN- Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase_ GKTDDSR			
Aplanci.LOC110987621_phosphatidylinositol_3kinase_GRTDSR	Avada ULTR36681 1 hypothetical protein T4U23 029398	GKTEOTSNN	
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase GRTSSTLSE- Myessoensis.XP_021360544.1_phosphatidylinositol_3k GRTKDKN	Aplanci.LOC110987621_phosphatidylinositol_3kinase	GKTDDSR	
Lanatina.XP_013404834.1_phosphatidylinositol_3kina GKIDGSK	Hsapiens.NP 002638.2 phosphatidvlinositol 3-kinase	GRTSSTLSE	
8008 8208 8408 8608 8808	Myessoensis.XP 021360544.1 phosphatidylinositol 3k	GKTKDKN	
Egranulosus. XP_024350401.1_phosphatidylinosito14ph INTLPEAMAAVONSLYNLMLSRKPRKQGILHQQPLSPRHSTGDN-WEEVVMEKLTILEMQVIRQTIAFLKKKQAWYPELRLATVL	Lanatina.XP_013404834.1_phosphatidylinositol_3kina	GKIDGSK	000^
Egranulosus. RP_024350401.1_phosphatidylinosito14ph INTLPEAMAAVONSLYNLMLSRKPRKQGILHQQPLSPRHSTGDN-WEEVVMEKLTILEMQVIRQTIAFLKKKQAWYPELRLATVL	Avaga.UJR33052.1 hypothetical protein TAU23 020511	a 820a 840a 860ā	აგიყშ
Avaga.UJR21159.1_hypothetical_protein_I4U23_024258 CINRLIDPNSMIVSIEEQIKSIQELINYMKGIQLTCSDIQSSKILEKHKELRNYNIELMKHSSSGKKEHLSRLIFDLLSTLKEYIQ Avaga.UJR28330.1_hypothetical_protein_I4U23_009572	Egranulosus.XP_024350401.1_Phosphatidylinositol4ph	INTLPEAMAAVQNSLYNLMLSRKPRKQQILHQQPLSPRHSTGDN-WEEVVMEKLTILEMQV	IRQTIAFLKWKQAWYPELRLATVLPAPPVLGN
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho IIEEVKKICSVLGCVETKQITDAVNELSLILQRKGENFYQSSETSAKGLIEK	Avaga.UJR21159.1_hypothetical_protein_I4U23_024258	CINRLIDPNSMIVSIEEQIKSIQELINYMKGIQLTCSDIQSSKILEKHKELRNYNI	ELMKHSSSGKKEHLSRLLFDLLSTLKEYIQTYCQAFLLI
Myessoensis.XP_021346813.1_phosphatidylinositol_45			
Bbelcheri.Loc109481794_phosphatidylinositol_4phosp VVQAIKALCATLASLETVEVSQAVGRLKRAVPAPRQPSVAGPEGLSEMNRASVVNNIASLSKEQKQEEVNLALEEVTAÄIL			
Aplanci.LOC110975484_phosphatidylinositol_4phospha LIQTVKAICFTLATVEPNEISTAIHEL			
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho VVGSVKAICNALAAVETPEITSALNQLEPCPSRMQPKIQKDPSVLAVRENREKVVEA	Aplanci.LOC110975484_phosphatidylinositol_4phospha	LIQTVKAICFTLATVEPNEISTAIHELQKSSDPEAAYEK	LTAAVLHLVDM
Myessoensis.XP_021340378.1_phosphatidylinositol_4pSVANCMTLAKIETIDITKTLRRA	Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho	VVQSVKAICNALAAVETPEITSALNQLPPCPSRMQPKIQKDPSVLAVRENREKVVEA	LTAAILDLVEL
Cintestinalis.LOC100175620_phosphatidylinositol_4p LMQTVKATCCSFGYLETLGITDAAKTLWGGVLQRKPTSSKQDDGLVHDLVKLDQRKQENKEDSPHVHC			
Lanatina.XP_013408190.1_phosphatidylinositol_4phos LIQAVHAVCAILFKLETNSITKAIARMTAVAESWHEALSLPEKEVQMDELASALDELTVAVHQVVKL Avaga.UJR15173.1_hypothetical_protein_I4U23_002134NEIRQVWNEKNIANET			
Avaga.UJR15173.1_hypothetical_protein_I4U23_002134NEIRQVWNEKNIANETFTLRILSGQLI			
	Avaga.UJR15173.1_hypothetical_protein_I4U23_002134	WNEKNIANET	FTLRILSGQLI
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase VVQAVKAICALLGSIDTMEIARCVADLKRICEVEQKKYSTGASNPEIVSDYGDYAQVVLRPRSMLEQIKVKCNELRDAVQELVEL	Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase	VVQAVKAICALLGSIDTMEIARCVADLKRICEVEQKKYSTGASNPEIVSDYGDYAQVVLRPI	RSMLEQIKVKCNELRDAVQELVEL
Egranulosus.XP_024352417.1_Phosphatidylinosito145bEASVDLWDLRDYFSLTVRAAQKL-TTVTF Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho	Egranulosus.XP_024352417.1_Phosphatidylinosito145b	EASVDLWDLRDY	FSLTVRAAQKL-TTVTKNPSTEKLD1
Cintestinalis_Doctorators_Low_Quality_PROTEIN_pno			

Aplanci.LOC110976503_phosphatidylinositol_45bispho	LQAKCL	VDWV	KDL	-FKVKINCAMYV
Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp				
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha Lanatina.XP_013391449.1_phosphatidylinositol_45bis	AQIRCI	YDI	QSP	-LRIKILCATYV
Lanatina.XP_013391449.1_phosphatidylinosito1_45bis	QQ1M5L	v	LAM	-LRIKINCAINV
Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b	ESVFTV	SLWDC	DRK	-FRVKIRGI
Cintestinalis.LOC100180112_phosphatidylinositol_45	TEIVAF	SLWDN	TRK	-FRIKVLGVDYL
Cintestinalis.LOC100183611_phosphatidylinositol_45	RAVWSL	DWQI	.DVM	-FKLRIIRAGNV
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase	KSISSL	WDM	GNY	-FQLTLHSISNV
Aplanci.LOC110979051_phosphatidylinositol_45bispho	EKMVSI	TWDI	EAR	-VIVSENGAINV
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp	RIISHV	WEN	NNP	-FQIVLVKGNKL
Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp	KKPSSV	SLWSI	EQP	-FRIELIQGSKV
Myessoensis.XP_021346814.1_phosphatidylinositol_45				
Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis	KTLGGV	TSIWTI	NET	-FSITVNAIRNV
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k	KILGGV	1S1W11	NEI	-FSIIVNAIRNV
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634	EQIS			-VNLPSKTGITT
Avaga.UJR36681.1_hypothetical_protein_I4U23_029398	EQILSNH			-TNQTIKPVTSA
Aplanci.LOC110987621_phosphatidylinositol_3kinase_	EQMSSL			-SKLTKKH
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase Myessoensis.XP_021360544.1_phosphatidylinositol_3k	DQMSRL			-AKLTKA
Myessoensis.xP_U2136U544.1_phosphatidylinosito1_3k Lanatina.XP_013404834.1_phosphatidylinosito1_3kina	DQMSKL			-AKLSKK
90	0â 920â	940â	960â	980â
90 Avaga.UJR33052.1_hypothetical_protein_I4U23_020511			KQTIFQFHSGIYYGRRC	LFSF
Egranulosus.XP_024350401.1_Phosphatidylinositol4ph	MECERLLGCQMSMQRECHRMSKCDMPFVMRIC	SVIDPADHSDPWNLSERLGA	GSCVRVHVILTYAGRP	LSTIYTSPLNPAYPRGSKGCVDYACTT
Avaga.UJR21159.1_hypothetical_protein_I4U23_024258	YEVEIYNNGNQTIDIEQYTSPLITSIPSTTCS	ITELSDVFTVHIDSLFSLPS	NVKTVRVIARLCYGNTT	RVKQMTRLMSFVRNTSQENF
Avaga.UJR28330.1_hypothetical_protein_I4U23_009572 Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho	I.INVYCNSEVADEODVMVDBCTCV	NDGLDSHISPTOVANUNTER	TMAHSAKVESELUMI LAVOAN	ICOVRNVPNIDDARIED
Myessoensis.XP_021346813.1_phosphatidylinosito1_45	BINVIONSE IMPEQPVNVPRCISYI	ETPN	GSKVKFYAGLFYGMES	IETISTEDIVISD
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp	ALVDMYSSAFDTDFTTNPQGTPTAGIVI	VTGVSSNVRVRLVSAHRLPI	NSNQLFEKFRVSSGVFHGGHK	MCDTKQTNIHPIKNSFF
Aplanci.LOC110975484 phosphatidylinositol 4phospha	YCTAFDTDFRTGTDNTDEAVOL	ITVKGHNLRVCIASAHRLOS	NVKNAHEFYTVSAOLYYGGNA	LHFPIDTWPARINSSFF
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho	YCNTFNADFQTAVPGSRKHDLVQE	ACHFARSLAFTVYATHRIPI	IWATSYEDFYLSCSLSHGGKE	LQTRRAHFSKYLF
Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph Myessoensis.XP_021340378.1_phosphatidylinositol_4p				
Cintestinalis.LOC100175620_phosphatidylinositol_4p				
Lanatina.XP_013408190.1_phosphatidylinositol_4phos	YCKMYYLELPPGVEKRQCTDSVTMI	VTGILENMIVHIASVHRIPE	QWKNSYDHYSVIASLYYAGRK	LCQDVMTPARSCTSDKFH
Avaga.UJR15173.1_hypothetical_protein_I4U23_002134			-PAGEFDEVKIIIGLYHGTQP	LYSGSILESRSVDT
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase	YANVFRVAFSVKTPDYSTTPIE	ISCVSKPIVVCISCLHRPLP	NWKFDDYSLCVQIVYGTRL	LSKPNVLTCSNDTSGGLF
Egranulosus.XP_024352417.1_Phosphatidylinositol45b				
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho Myessoensis.XP_021367892.1 phosphatidylinositol 45		NVGE	NCKIEVPACVEHCTEC	ICEDODTKI VES
Aplanci JOC110976503 phosphatidylinositol 45bispho		NVKF	LDKTYVRSGTYHGSES	ICPOVMTEHVPC
Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp		NVNI	RDIDKIYVRTGIYHGGEP	LCDNVNTQRVPC
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha		NVKE	HDKIYVRSGVYHGGEP	LCTPVNTNRVPC
Lanatina.XP_013391449.1_phosphatidylinositol_45bis Lanatina.XP_013391443.1_phosphatidylinositol_45bis		SVKE	LGKIFVKTGIYHGTEP	LCPPKDTEHVTS
Harriana ND 001260255 1 phosphatidulinosital 4 5-b		DTD1	T DENITED TWENEAUTORCOOK	TCODDT_CDVDFT
Cintestinalis.LOC100180112_phosphatidylinositol_45		TPEN	ETVGTPDELYVEFSLYSGROR	IAEPVRTKPVASN
Cintestinalis.LOC100183611 phosphatidylinositol 45		N	AGQERDKKLVVHVGLYHGTET	LCPTTYTKEPVKEMAAG
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase		NFDK	TRALKVGVHVCLYHGDKK	LCAQRSTDSPNGNF
Aplanci.LOC110979051_phosphatidylinositol_45bispho		NIID	RAWLQVRAGVYHGGEK	LCPNFLSREAEG
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp		NAGE	NNKVFVKAGLYHGGET	LCSISTTKEASCVG
Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp		NIEE	DWKI WWOAGLEHGIEL	TCKTVSSSEVSVC
Myessoensis.XP_021346814.1_phosphatidylinositol_45				
Lanatina.XP 013393940.1 phosphatidylinositol 45bis		NCNE	DSKIHVRAGLFHGHDI	MGDIKDTDFARLED
Lanatina.XP_013393974.2_phosphatidylinositol_45bis		NCNE	DSKIHVRAGLFHGHDI	MGDIKDTDFARLED
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k			GEL	VATP
7 77 77 77 77 77 77 77 77 77 77 77 77 7			SILQNNSKQ	
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634			SVITTANI,OHNRKO	TTSKPI
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634 Avaga.UJR36681.1_hypothetical_protein_I4U23_029398 Aplanci_IOCI10987621_phosphatidylinositol_3kinase			SVITTANLQHNRKQ	I I,
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Avaga. UJR03391.1_hypothetical_protein_I4U23_029398 Aplanci.LOC110987621_phosphatidylinositol_3kinase_Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_Hsapiens.NP_01360544.1_phosphatidylinositol_3kinase_I00388.2_phosphatidylinositol_3kinase_I00388.2_phosphatidylinositol_3kinase_I00388.2_phosphatidylinositol_3kinase_I00388.2_phosphatidylinositol_3kinase_I00388.2_phosphatidylinositol_3kinase_I00388.3_phosphatidylinositol_4phosphataga.UJR28330.1_hypothetical_protein_I4U23_024588Avaga.UJR28330.1_hypothetical_protein_I4U23_009572Hsapiens.NP_001275701.1_phosphatidylinositol_4phosphatigners.NP_001275701.1_phosphatidylinositol_4phosphatigners.NP_001364263.1_phosphatidylinositol_4phosphatspiens.NP_001364263.1_phosphatidylinositol_4phosphatspiens.NP_001364263.1_phosphatidylinositol_4phosphatspiens.NP_001364263.1_phosphatidylinositol_4phosphatagatins.NP_013048190.1_phosphatidylinositol_4phosphatagatins.NP_013048190.1_phosphatidylinositol_4phosphatagatins.NP_013048190.1_phosphatidylinositol_4phosphatagatins.NP_013048190.1_phosphatidylinositol_4phosphatagatins.NP_013048190.1_phosphatidylinositol_4phosphatidylinositol_1006603_phosphatidylinositol_4phosphatidylinositol_1006603_phosphatidylinositol_4phosphatidylinositol_1006603_phosphatidylinositol_45bisphosphatidylinositol_1006603_phosphatidylinositol_45bisphosphatidylinositol_1006603_phosphatidylinositol_45bisphosphatidylinositol_1006603_phosphatidylinositol_45bis	D20â DPIN	1040å TITLPLANFLEGTILC		I TSKPL TSKPL
Avaga. UJR93931.1_hypothetical_protein_I4U23_029398 Aplanci.LOC110987621_phosphatidylinositol_3kinase_ Hsapiens.NF_002638.2_phosphatidylinositol_3kinase_ Hsapiens.NF_002638.2_phosphatidylinositol_3kinase_ Myessoensis.XP_021360544.1_phosphatidylinositol_3kinase_ Lanatina.XP_013404834.1_phosphatidylinositol_3kinase_ Avaga.UJR33052.1_hypothetical_protein_I4U23_020511 Egranulosus.XP_024350401.1_phosphatidylinositol_4havaga.UJR21159.1_hypothetical_protein_I4U23_024258 Avaga.UJR221359.1_hypothetical_protein_I4U23_0924258 Avaga.UJR22330.1_hypothetical_protein_I4U23_09572 Hsapiens.NP_001257501.1_phosphatidylinositol_4phosp Myessoensis.XP_021346813.1_phosphatidylinositol_4phosp Aplanci.LOC110075484_phosphatidylinositol_4phosp Hsapiens.NP_001364263.1_phosphatidylinositol_4-phosp Myessoensis.XP_021340378.1_phosphatidylinositol_4-phosp Myessoensis.XP_021340378.1_phosphatidylinositol_4-phosp Myessoensis.XP_021340378.1_phosphatidylinositol_4-phosp Avaga.UJR15173.1_hypothetical_protein_I4U23_002134 Eanatina.XP_013408190.1_phosphatidylinositol_45bisp Myesoensis.XP_024352417.1_Phosphatidylinositol_45bisp Myesoensis.XP_021367892.1_phosphatidylinositol_45bisp Myesoensis.XP_021367892.1_phosphatidylinositol_45bisp Myesoensis.XP_001391449.1_phosphatidylinositol_45bisp Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phosp Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phosp Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phosp Bbelcheri.LOC109479965_LOW_DALITY_PROTEIN_phosp Bbelcheri.LOC10948004_phosphatidylinositol_45-bisp Bbelcheri.LOC10948004_phosphatidylinositol_45-bisp	DA 1020Å DPIN	1040â TITLPLANFLPGTILC		I TSKPL TSKPL

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Lanatina.XP_013404834.1_phosphatidylinosito1_3kina -KVD--------WLD-RLTFREI-EMINEKQKRDSNFMYL-------------------
                                                                                                                                       ----MVEEDI.THYEGTEEA
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp GLWP-------ESKVNPIGTCSSNLLQPD----SIILQVEFPSHGG----DVIFPPPEPHYEGRHYS-----------FSILDDTTR--
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho RLWH----PPCHMDGMLNPIG-VTGSNPMKE----TPCLELEFEGHRA---

Myessoensis.XP_021367892.1_phosphatidylinositol_45 NLWA----MPQGMEDSLNPIG-LPGSNPDKE----TPCLELEFEGHRA---

Aplanci.LOC110976503_phosphatidylinositol_45bispho YLWP----LPQGHDELLNPFG-QTGSNPNKD----APCLELECERNKY---
                                                                                                          -NVEFTQTNEGLIEGDYT------ELAFDSPPLDDGGD
                                                                                                         Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp NLWP----VPHGLEDLLNPIG-VTGSNPNKE----TPCLELEFDWFSS--
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha NMWS----VPHGMDDLLNPIG-STGQIPARD----TPCLDLEFDRFAH-
                                                                                                         -VVKYPNDOOIEEYAKWIANVNSEGNILRGTTSSASNLHGASNSYAENG
Cintestinalis.LOC100180112 phosphatidylinositol 45 KTWP-
                                                          --MSYSEDVSVETHTG-TTAPNDGVESTSSTAEIHFELDSYMH----PVVFPNGGWKTSNPEDQ-------
                                                                                                                                           ---APDPIHGSSDW--
Lanatina.XP_013393940.1_phosphatidylinositol_45bis_HLWP-LKDDITTEHSLHHIG-TVVSNPNEE---SAPELLVTFHNFGCSD--PVVFPPIATVLEFAHRHEEREE--------DGQPIYSMPDASNSTL--
Lanatina.XP_013393974.2_phosphatidylinositol_45bis_HLWP-LKDDITTEHSLHHIG-TVVSNPNEE---SAPELLVTFHNFGCSD--PVVFPPIATVLEFAHRHEEREE----------DGQPIYSMPDASNSTL--
1240â
                                                                                                                                  1280â
                                                1200â
                                                             1220â
-ESSSDVANG----EALNY-----
                                                                                                             1260â
Avaga.UJR33052.1 hypothetical protein I4U23 020511 -
                                                                                                         -LLGVLNE--ETOYMVREPSWLSDCSLAPI-DALPCVLHSILG-EIHRS
Avaga.UJR21591._hypothetical_protein_14U23_024258 ------ELYQLLDRSVLITNESFVENRKQPQLSANVFDEAAYIRNLAREYSDDER-YELWSHRH-----YL-IHRP-YALPKLLKSRNV-WDYPS
Avaga.UJR28330.1_hypothetical_protein_14U23_009572 -------ELYQLLDRSVLLTNESFVENRKQPQLSANVFDEAAYIRNLAREYSDDER-YELWSHRH-----YL-IHRP-YALPKLLKSRNV-WDYPS
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho ------KHIARLSQK----QTPL---------LLSEEKK--RYLWFYRF-----YC-NNEN-CSLPLVLGSAPG-WDERT
-ESLY----
---EITEOEK--DELWSHRH-
                                                                                                                                -YC-VTIP-EILPKLLLSVKW-NSRDE
                                                                          -DPI.S-----
                                                                         -RC-QEIQ-DSLPRLLQSCKW-SSRED
-FCKKNHP-DSLPKLLAAVKW-DSRKD
                                                                                                                               -FCKKNHP-DSLPKLLAAVKW-DSRKD
                                                                          -DPI.N-----PI.TAEDK--EI.I.WHFRY-
                                                                                                                                -ES-LKHP-KAYPKLFSSVKW-GOOFT
                                                                                                                                -ES-LKHP-KAIPKLFSSVKW-GQQLI
-YC-RGRA-NSLPKVLQAVDA-ASLDS
-DCREKYP-EALSKVLASAKW-NSYKS
-DILRELP-EELSILLHCVYW-KERDD
                                                                          -DTLT-----ELTLEDK-ALLKKYRS-
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase ---
                                                             KELKELMANYTGLDKIY-
                                                                                                         -EMVDQDR--NAIWERRN-
-DCRDHIP-HSLPRLLTCVRW-SDKDC
                                                                          -EI.MA-----PMFDODM--EMIWOI.RD-
                                                                                                                                KTHELEP-HALAKLISSVKW-NNHRE
                                                                          DPLS----QLCENEM--DLIWTLRQ--
                                                                         --RGSG-----ELYEHEK--DLVWKLRH---
                                                                                                                               --EVQEHFP-EALARLLLVTKW-NKHED
-----ALATFLLSVRW-QYPEQ
FL-SQHK-KALAKFLQCVHW-DKEEE
-FL-SQHK-KALAKFLQCVHW-DKEEE
Lanatina XP 013404834.1 phosphatidylinositol 3kina -------DOLNTILGY---PPTK--------------TLTSEEO--DLLWKFRF-----YL-SEKK-KALTKFLKCVKW-DIPOE
                                                1300â
                                                                   1320â
                                                                                         1340â
                                                                                                             1360a
                                                                                                                                  1380â
| 1300\text{a} | 1300
                                                                                                                                        T DD AUT DEVAMENT ED -1
                                                                                                                                         VADQFFRHWAVSCISQ-F
                                                                                                                                        -FPDMYIRSCAYRSLISQI
                                                                                                                                       --FPDMYIREYAYKSLISCL
                                                                                                                                       --FPDQEIRKVAVQQLDN-L
--FPDRNVRKKAIDWLNDTL
```

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Bbelcheri.LOC109481794_phosphatidylinositol_4phosp -
                                                                                      -LADIYSLVHN---W--S-PLTP-VSALELLHPH-
                                                                                                                                                                 FADKEVRATAISWMQH-L
Aplanci.LOC110975484_phosphatidylinositol_4phospha --------LADIYSLLRN---W--K-PVKP-IQTLQLLHPR---------FADREVRRTAVKWMMS-I
-LADTYSMIYQ---W--A-PLGS-VEAMQLLLPQ-----
                                                                                                                                                                -FVDEKVRDVAVKWMRE-I
                                                                                     -VSLLYILLKD---W--D-LVDN-ETSLGLLDCS-----
                                                                                                                                                                 YADLGVRTFAVESLEQNI
                                                                                      ·VAQMYCLVKD---W--P-PIKP-EQAMELLDCN--------
·VSQMYMLLEN---W--P-QVSP-ETALELLDCT-------
                                                                                     -VAQLYMLLRE---W--S-VVSP-EIALELLDFT------
Lanatina.XP_013391449.1_phosphatidylinositol_45bis -----
                                                                                                                                                                -YNDLYVRRFAVKCLDQGL
-VAOLYMILEE---W--S-VVSP-ETALELLDFT--------
                                                                                                                                                                -YNDI.YVRRFAVKCI.DOGI.
                                                                                     -VADMWYLLKO---W--P-LISI-ERSLELLDYA-----
                                                                                                                                                                -YPDPAVRRFAIRCLHF-L
-VAOMOALIOI---W--P-ELKP-EEAMELLDYR-----
                                                                                                                                                                 -YPDI.SVRKFAVECI.SN-I.
                                                                                      YPDQYVREYAVGCLRQ-M
PNDQLVDFLPQLVQ-SLKHDTYEG-----
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase
Egranulosus.XP_024352417.1_Phosphatidylinosito145b SNADLADYLLQLVQ-VVRTEAFLV

Cintestinalis_LOC100180252_LOW_QUALITY_PROTEIN_pho TDDGVLKYLLQLVT-AIKFEFYLD

Myessoensis.XP_021367892.1_phosphatidylinosito1_45 TDDKLQGYLLQLVQ-ALKFEFYLD

Aplanci_LOC110976503_phosphatidylinosito1_45bispho TDEELLQYILQLVQ-VLKYEEYLD

Hsapiens.NP_006209.2_phosphatidylinosito1_4.5-bisp TDDKLSGYLIQLVQ-VLKYEEYLD

Bbelcheri_LOC109479966_LOW_QUALITY_PROTEIN_phospha TDDQLSQYLLQLVQ-VLKYEEYLD

Lanatina.XP_013391449.1_phosphatidylinosito1_45bis DDDCLSGXYLLQLVQ-VLKYEEYLD

Lanatina.XP_013391443.1_phosphatidylinosito1_45bis DDDCLSGXYLLQLVQ-VLKYEEYLD

Hsapiens.NP_001269355.1_phosphatidylinosito1_4.5-b EDDDVLHXYLLQLVQ-VLKYEEYLD

LSTATURE APPLIES LOC100180112_phosphatidylinosito1_4.5-b EDDDVLHXLLQLVQ-VKFEEYHD
Egranulosus.XP 024352417.1 Phosphatidylinositol45b SNADLADYLLOLVO-VVRTEAFLV-------
                                                              TDDOLSOYLLOLVO-VLKYEPYLD-------
Cintestinalis.LOC100180112_phosphatidylinositol_45
                                                             SNTKLHAYLLOLTO-VLKFEPYHD------
Cintestinalis.LOC100183611_phosphatidylinositol_45
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase
Aplanci.LOC110979051_phosphatidylinositol_45bispho
                                                             RDDELQQYLMQLVQ-VVKFDSYLN------
                                                             Bbelcheri.LOC109480004 phosphatidylinositol 45bisp TDEELSQYLLQLVQ-VLKYEAYLD------
SDEELSOYLLOLVO-VLKYEPFI.D------
                                                             TDDELFQYLLQLVQ-VLKYESYLD-------
Lanatina.XP_013393974.2_phosphatidylinositol_45bis
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k
Avaga.UJR09391.1_hypothetical_protein_14023_0134
Avaga.UJR36681.1_hypothetical_protein_14U23_029398
                                                             SDTDLLOYLLOLVO-VLKYEAYLE-----
                                                             Aplanci.LOC110987621_phosphatidylinositol_3kinase_
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase
Myessoensis.XP_0013605441.phosphatidylinositol_3k
Lanatina.XP_013404834.1_phosphatidylinositol_3kina
Avaga.UJR33052.1 hypothetical protein I4U23 020511 -
Egranulosus.KP_024350401.1_Phosphatidylinositol4ph
Avaga.UJR21159.1_hypothetical_protein_I4U23_024258
Avaga.UJR22330.1_hypothetical_protein_I4U23_009572
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho
                                                                   NDDFRIELQNEYDLCVN
                                                                                                                                                                  DENFRNELQHEYNLCLN
                                                                                                                                              -KLLAALQFCA--
                                                                                                                                                                  -GKALNDEFSKEQKLIKI
Myessoensis.XP_021346813.1_phosphatidylinositol_45
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp
Aplanci.LOC110975484_phosphatidylinositol_4phospha
                                                                    -SDLATFLLERCLCNOH-LGHOLFWLLKSEL------HDSKVTV-OFG-
                                                                                                                                            ---I.TI.EVYI.RFS---
                                                                                                                                                                  -RDHT-PNTCKOOESLSK
                                                                    SDLAIF LIBERGLENGH-LENGLE WILLIASEL BLOOM OF GOOGGERY FOR STANFILLERS LASVET LENGTH FUNDER STANFILLERS LASVET LENGTH FUNDER STANFILLERS LOST S
                                                                                                                                                                  GRALRTEFEKQVQLIRM
SKGLRQQFRLQEALIEN
                                                                                                                                               -MVI.AGI.I.STC
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho
Hsapiens.NP_002636.2_phosphatidylinositol_4-pho
Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph
Qintestinalis.LOC100175620_phosphatidylinositol_4p
Lanatina.XP_013408190.1_phosphatidylinositol_4phos
                                                                                                                                               -YLLAALLCCC-
                                                                                                                                                                  GKGLREEFNRQCWLVNA
                                                                                                                                              -HVLGALLSVG--
                                                                                                                                                                  -GKRLREELLKOTKLVOL
                                                                                                                                                                  -GDALYQEFRKQEELVKI
-GSALKKEFDKEVYFLKK
                                                                    -SDI.SRI.I.EOSCKSTR-FAHKFFWI.LKGAA-----ODSTYKH-RYE-
                                                                                                                                              -I.MEVAI.VSVA--
                                                                    --LVFGALMSVA-
                                                                                                                                                                  -GEALCTEFQKQEELARK
Avaga.UJR15173.1 hypothetical protein I4U23 002134
                                                                    -SALARFLLKRSLLNOO-VGHFFYWHSRAEL-----KNPOYKV-RFG
                                                                                                                                              -LLLEAYVRYC-
                                                                                                                                                                  -GEYA-EDLGROVRTVDK
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase
Egranulosus.XP_024352417.l_Phosphatidylinositol45b
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho
                                                                    -SAMARFLLSKCLESPR-FAHHMYWLLVHSLPDDPHNSIGAAMVDQEYDESQVTQVRYYRRNKMMLRALMAIC--
                                                                                                                                                                  -GEKMI ORFMYOHRMOOK
                                                                    NPLTCFLLQRALDCPTLIGVRLCWHLRSQL-----NSLVRFLLKRAIKNLR-IGHYLFWHLKSEM-----
Myessoensis.XP_021367892.1_phosphatidylinositol_45
Aplanci.LOC110976503_phosphatidylinositol_45bispho
                                                                    -SPIARFLLKKSLLNQR-IGQNFFWLLKSEM-----
                                                                                                                            -HHTNIRV-RFG-
                                                                                                                                               -LILEAFCRGC-
                                                                                                                                                                  GPYL-RMLSRQVEALDK
                                                                    -NPLARFLMKRSLYNHR-IGHFFFWHLRSEM------HKPKVSQ-RFG-
                                                                                                                                              -LMLEAYCRAL--
                                                                                                                                                                  -GPYL-KLVVKQVEAIDK
Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha
                                                                   -I.I.I.ESYCRAC-
                                                                                                                                                                  -GMYL-KHLNROVEAMER
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Lanatina.XP_013391449.1_phosphatidylinositol_45bis
                                                                        -NDLARFLLKRALLNQN-IGHFLFWHLKSEL
Lanatina.XP_013391443.1_phosphatidylinosito1_45bis -----NDLARFLLKRALLNQN-IGHFLFWHLKSEL-------YQVATRQ-RFG----LMLEAFCRGC-----GAYL-KSLVRQVEALDK
Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b
Cintestinalis.LOC100180112_phosphatidylinositol_45
Cintestinalis.LOC100183611_phosphatidylinositol_45
                                                                     ---SALARFILKRGLRNKR-IGHFLFWFLRSEI------AOSRHYOORFA-
                                                                                                                                                         -VILEAYI.RGC----
                                                                                                                                                                             -GTAMI.HDFTOOVOVIEM
                                                                                                                                   --ENPHVSQ-RYS-
--SNTLLNL-RFA-
                                                                        -SALARFILTRALOSKR-IGHYFFWFLRSET-----
                                                                                                                                                         -TLLEAYLRGC---
                                                                                                                                                                              -GSNMLKEFSKQCAVTNT
                                                                        -SDLVVFLLERALRNQR-IGHYFFWHLRSEM-
                                                                                                                                                                              -KHHV-APLRKQLHVLEK
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase
                                                                                                                                      -QTPSMQT-RFG-
                                                                                                                                                         LLLEVYLKGC-
Aplanci.LOC110979051 phosphatidylinositol 45bispho
                                                                        -CELGOFLLRRALANOR-IGHFLFWHLRAEM----
                                                                                                                                      HQPAVST-RFG-
                                                                                                                                                         -LMLEAYCRGS----
                                                                                                                                                                             -IAHM-ASLIRQVESLNK
Bbelcheri.LOC10948004_phosphatidylinositol_45bisp
Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp
Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp
                                                                        -CELARFLLSRGLNNOR-IGHYLFWHFRSEM-----
                                                                                                                                     -HNPAVSV-REG-
                                                                                                                                                         I.I.I.EAYCRGC----
                                                                                                                                                                             -VTHM-KAI.SROMEAI.SK
                                                                        -CALSRFLLERALGNRR-IGNFLFWHLRSEV------
-CELTKFLLDRALANRK-IGHFLFWHLRSEM-----
                                                                                                                             -----HIPAVSV-QFG-
-----HVPSVAL-RFG-
                                                                                                                                                         -ULEAYCRGS-----VIHM-KALSKQMEALSK
-VILEAYCRGS-----THHM-KVLMKQGEALSK
Myessoensis.XP_021346814.1_phosphatidylinositol_45
Lanatina.XP_013393940.1_phosphatidylinositol_45bis
Lanatina.XP_013393974.2_phosphatidylinositol_45bis
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634
                                                                        -NDI.SEFI.MORALANOK-IGHYFFWI.LRSEM-----
                                                                                                                            ----HVPSVSV-KFG-
                                                                                                                                                        -- II.I.EAYCRGA-----VI.HM-KTI.OROVEAI.EK
                                                                  ----NDLSEFLWQRALANQA-IGHIFFWLLKSEM------
DIPWKTDLATFLIQRGRGKFR-LANYLYWFLHLEAHEDTP----
UDLSTFLIQRACEKPV-VANYLFWYAYVECENSSSA---
                                                                                                                                                        -ILLEATCKGA-----VLHM-KILQRQVEALEK
-ILLEAVCRGA-----VLHM-KTLQRQVEALEK
-HVLKRFMAALECGSEEHRSWHSDLLNQTKFVNG
-AFVERLSITLKTKNEQTQQVRLAIEAQKKFVDK
                                                                                                                               ----HVPSVSV-KFG-
Avaga.UJR36681.1 hypothetical protein I4U23 029398
                                                                        -IDLSTFFIQRACEKPI-VAYYLFWYAYVECENNSSS-----
                                                                                                                                     -KDKTTSD-MYQ-
                                                                                                                                                         -AFVNRLLSTLKTKNEQTQQVRLSIEAQKRFVDK
Aplanci, LOC110987621_phosphatidylinositol_3kinase_
Hsapiens.NP_002638.2_phosphatidylinositol_3-kinase
Myessoensis.XP_021360544.1_phosphatidylinositol_3k
                                                                        -MDIATFI.TDRACHNYS-I.ANYI.YWYI.I.VESDDODT------VDTRVTO-MYO-
                                                                                                                                                         -MVI.KRENVAI.TREGNEGI.KYRTI.I.TROHGI.TNO
                                                                  EE--
1600â
                                                                                      1620â
                                                                                                                1640â
                                                                                                                                          1660â
                                                                                                                                                                    1680â
--NKLTCRLPCQFNFMTNSLDVNSCSFYNS
                                                                                                                                                               -DVNTCHLPLNPALCIKGIDHDACSYFTS
                                                                                                                                                               -LT-NLYTPLTPLFKVGVLRHEKCNVMDS
-MVVPFRLPTNPALVCSGINFQSCSYFTS
                                                                                                                         -----LDSNVHLPTNPSLEVRGINVONCAYYSS
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho LAKLAQQVREAAPSA-----RQGILRTGL---EEV--KQFFA-------
                                                                                                                                                             --LNGSCRLPLSPSLLVKGIVPRDCSYFNS
hsapiens.NP_002636.2_phosphatidylinositol_4-phosph
Myessoensis.XP_021340378.1_phosphatidylinositol_4p
Cintestinalis.LOC100175620_phosphatidylinositol_4p
                                                                                                                                                             -----KFRVPTNPALIANGIVFRUSIFNS
-----KFRVPTNPALIANGINVKNSSYFNS
                                                                  LGGVAEKVRQASGSA-----
LTNAAEKVQVSKEKDGT---
                                                                                             -KQSTLTDEL---SKISSRIGGH-----
-TTMLPLNPSMEVVGLDIRTCSYFTS
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha LTMLTETLQEREKEKKDTT--QRERLKFLGEKINQE--DYLEA-----
                                                                                                                                                               -LQ-NFPCPLNPSHLLGTLLIKECKVMKS
Lanatina.XP 013391449.1 phosphatidylinositol 45bis LTMLTNKLKNEREDO-----OKAVLLDHI---ROM--DYLEA-----------------
                                                                                                                                                               -LO-SFOSPLNNSEILGDLEIEHCEVKTS
--LQ-SFQSPLNNSEILGDLEIEHCEVKTS
                                                                                                                                                               ---SFRVPYDPGLKAGALAIEKCKVMAS
-LPETFKAPFDPRITLGRLMAEKSKIMDS
--LT-SVECPLEPNLDLEELLVEKCKVMNS
Dmelanogaster.Pi3R92E_phosphatidylinositol_3kinase
Aplanci.LOC110979051_phosphatidylinositol_45bispho
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp
                                                                  ---NIONPLNPSFRCSGVTPDRCKVMDS
                                                                                                                                                              -LS-NFVSPLSPSYKLKGLRLEKCKFISS
                                                                                                                                                                LS-RIHNPVEPQFKLLQLSNDHCKFRDS
Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp LKTLNSLIKLNAVKLNRAK--GKEAMHTCL---KQS--AYREA----------------
Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp LKALNDFVKLSSQKTPKPQ--TKELMHLCM----RQE--AYLEA-------------
                                                                                                                                                               -LS-DLQSPLNPCVILSELYVEKCKYMDS
                                                                                                                                                              --LS-HLOSPLDPSTLLAEVCVEOCTFMDS
heapires.xe_00007/3_phosphatidylinositol_45
Myessoensis.XP_021346814.1_phosphatidylinositol_45
Lanatina.XP_013393940.1_phosphatidylinositol_45bis
Lanatina.XP_013393974.2_phosphatidylinositol_45bis
                                                                  LRSINILVKGEQYS-----LRSINILVKGEQYSGKKQK--ALQDMHDVL---RQK--AYMEA--
                                                                                                                                                               -LS-DLRAPLDPAWGCHKLKIEKCKVMDS
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k LYELVKRVHEDASKRIR----KMEILKNLL---RTEGASLTQ-------------FERPLPFPVDPNFLIATVDADSATLFKS
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634
Avaga.UJR36681.1_hypothetical_protein_I4U23_029398
Aplanci.LOC110987621_phosphatidylinositol_3kinase_
Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_
                                                                  LVELTNIVKRVOGSAKV----KEDKLRSLLLAGDDSPVKFNFL-------NFDPIPLPLDPDVKIRGIIPEKIRIFKS
                                                                  LVELTNIVKRVQGTAKV--
                                                                                             -KEEKLRSLLLAGDESPVKFNFL------
                                                                                                                                                               -NFDPIPLPLDPEIQICGINPDKIKIFKS
                                                                                             -KIERLQLLLSDSEST--SFSFV---
-KNERLQALLGDNEKMNLSDVEL---
                                                                                                                                                                AFDPLPLHPEIKVNGTVAKKASIFKS
                                                                  ILKLMKQVARESSNRKK
                                                                                                                                                                 ----IPLPLEPQVKIRGIIPETATLFKS
                                                                  LVHLMKAVQRESGNRKK
Myessoensis.XP 021360544.1 phosphatidylinositol 3k LVDLVKMVSRESGNRKK-
                                                                                           --KSERLOALL--ODOEVCKINFS-----
                                                                                                                                                              --DFEPLPLPLDPDVKVYGIIPEKAALFKS
Lanatina.XP_013404834.1_phosphatidylinositol_3kina LVQLVKMVTRESGSRTK--
                                                                                           --KIEKLQALLTDHETF--KFNFA-----
                                                                                                                                                               -GFDPIPLPLDPEVKIKALLPDKATLFKS
Avaga.UJR33052.1_hypothetical_protein_I4U23_020511 FMRPFKLVWENALNP-
                                                                                          20â 1740â 1760â 1780â
-KHERFELIYKIGDDLRQDVLTLQVFRLFDSIWKKNSIDQANDDLVQLQNLHMTFYDVMCTSETTGFIRIVPNAYTILNIYH
                                                                                       1720â
AVAGA.UUK33U32.1_nypothetical_protein_14U23_U2U511 FMKFFKLVMENALNF--
Egranulosus.XP_024350401.1_Phosphatidylinositol14ph FTCPIRITISGID---
Avaga.UJR21159.1_hypothetical_protein_14U23_024258 LTLPMRIVFNSSSLP-
Avaga.UJR28330.1_hypothetical_protein_14U23_009572 LTVPIKLVFNPLDSS--
Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho NALPLKITFINANMM--
Myessoensis.XP_021346813.1_phosphatidylinositol_45 KKKPLWLHWTNADER--
                                                                                           -GEMRKCIFKVGDDLQMDLLICQLIHVADRIWMNGGMD------
                                                                                                                                                          -LCIPHFTVMPTEPKRGLIEPVPDSETLRLINQ
                                                                                           LEKYQALYKIGDDLRQDQIVLQLLTCMDKIWQANNFD ——
CEKYYSIYKIGDDLRQDQIVLQLFSCMDRIWKANDFD ——
GKNISIIFKAGDDLRQDMLVLQLIQWDNIWLQEGLD ——
GQDILIMYKNGDDLRQDMLTLQMFIHDNIWREEELD ——
                                                                                                                                                          FHLSLFNVVQTQECCGFIEMITDSETLLDIEK
FRLSLFNVVQTQERCGFIEMITESETLREIES
MQMIIYRCLSTGKDQGLVQMVPDAVTLAKIHR
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp NATPLRLVFGNADSL-
Aplanci.LOC110975484_phosphatidylinositol_4phospha FTVPLKLVLFNADPL-
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho NAVPLKLSFGNVDPL-
Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph NAVPLKVTMVNADPM-
                                                                                            GEEIOAMYKVGDDLRODMLTLOMIRIMNKLWLREGLD----
                                                                                                                                                          -LRMITFACVATGKEAGMVEIIPKSETLRKIOT
                                                                                                                                                          -LRMITFRCMATGLNRGLVELVGSSETMRKIQV
-MRMVIFRCFSTGRGRGMVEMIPNAETLRKIQV
-LRMVIFKCLSTGRDRGMVELVPASDTLRKIQV
                                                                                            AEDVTIMYKAGEDMRODMLTMOMIRIMDKI.WLSEGLD-
                                                                                            GEEINVMFKVGEDLRQDMLTLQMIRIMSKIWVQEGLD--
GEEINVMFKVGEDLRQDMLALQMIKIMDKIWLKEGLD--
-AEPIYVMFKVGDDLRQDMLTMQMVKIMDRLWLRAGLD---
                                                                                                                                                          -LKMITFACLATGPKRGVIELVMESDTLRRIQV
                                                                                                                                                          LRIVTFDCLPTGLNQGLVELIGESKTLREIQS
                                                                                                                                                          LRIVIFDCEPTGENGGEVELTGESKILKELUS
LEKIITFMCVPTASKKGMVELVTECETLRKIQV
LESLLPYGCLATGYCSGLIEVVKNAKTIMNIQK
LKMVTFNCVPTGYKSGMIELVSEAETLRKIQV
                                                                                                                                                          LDLTTYDCLATGDEMGLIEV----RVRS
                                                                                                                                                          I.CISPYICISMGHNVGMIEIVONAETVMNVOK
                                                                                                                                                          LCISFITCISMGHNVGMIETVQNAEIVMNVQR
LRLIPYGCVSTGKDVGVIQVVRQAETLMEIQS
LNMQPYKCLASGNATGLIEVVRNSSTIYDIQH
                                                                                                                                                          LRMLPYGCLSIGDCVGLIEVVRNSHTIMQIQO
HSAPLENS.NP_U002493.2_pnosphatidylinosito1_4,3-bisp AKRE/MINNENPDH-M-DLINGMIFTKNODLKQUMILIQIIKIMENINGNIGUD-
Bbelcheri, LOC109479966_LOW_QUALITY_PROTEIN_phospha AKRE/MINNENPDH-ADLIFKDMIFTKNODLKQDMILTQMITGNTGEID--
Lanatina.XP_013391449.1_phosphatidylinosito1_45bis KKRPVWLVWKNPDPM-ADLIFKDWKIIFKNGDDLRQDMILTQVIGIMDNIWQEEGLD--
Lanatina.XP_013291443.1_phosphatidylinosito1_4.5-bis KKRPVWLVWKNPDPM-ADLIFKDWKIIFKNGDDLRQDMILTQVIGIMDNIWQEEGLD--
HSAPLENS.NP_001269355.1_phosphatidylinosito1_4.5-bi KKRPLWLEFKCADPT--ALSNETIGIFKHGDDLRQDMILTQLILIGILIKIMESIWFTSLD--
Cintestinalis.LOC100180112_phosphatidylinosito1_45 KKKPLWLEFENADENVINESTSVIRIIFKQGDDLRQDMLTQMLSIMGQLWNEEGLD--
                                                                                                                                                          -I.RMI.PYOCI.SAGNCVGMTEVVRNAKTVMOTOR
                                                                                                                                                           LRMSPYGCLSTGSNVGMIEAVRNSKTVLGIQK
LRMSPYGCLSTGSNVGMIEAVRNSKTVLGIQK
                                                                                                                                                           LCLLPYGCISTGDKIGMIEIVKDATTIAKIQQ
                                                                                                                                                          LHLLPYGCLSTGLQVGIIQIVPNATTVARIQ
Cintestinalis.LOC100183611_phosphatidylinositol_45 KMRPLWLVFKNKQVQ-----DGSMSVIYKNGDDLRQDMLTLQTISIMDMLWKAEGLD-
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase KMRPLWVVFENADVN-----ASDVHIIFKNGDDLRQDMLTLQMLRVMDQLWKRDGMD-
                                                                                                                                                           I.RMTPYGCI.ATGKGTGMTEVVTHSNTTANTOR
                                                                                                                                                           FRMNIYNCISMEKSLGMIEVVRHAETIANIQK
Aplanci.LOC110979051_phosphatidylinositol_45bispho KMRPLWLVFENEDPA----
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp KMRPLWLVFENEDRF----
                                                                                           -GDNVFLMFKNGDDLRQDMLTLQVMQIMDNIWQEEGLD-
                                                                                                                                                          LRLIPYRTLATGNKMGMIQVVTEAETIAKIQQ
                                                                                           -GEOVTLMFKDGDDLRODMLTLOIIOVMEMLWOAEGID-
                                                                                                                                                          -LRMSPYGCLSTGNKVGLVEVVLNADTIANIOK
-I.RMI.PYGCI.ATGDRSGI.TEVVSTSETTADIOI
                                                                                                                                                          -LRMTPYGCLPTGDRTGLIEVVLRSDTIANIQL
----NPYLCVATGSMEGMIEVVQNSATIAKIQG
-LRLIPYGCIATGPSSGMIELVTDSQTVANIQK
                                                                                                                                                          -LHLTPYIVLAATCRHGFIQFV-KGVRLSDVNF
-LKLTPYKVLSTSLKYGFVQFI-DSQPLQRVIE
```

```
Avaga.UJR36681.1_hypothetical_protein_14U23_029398 AKLPFLFVCKTVN------DEEYSIIFKNGDDLRQDQLILQIIMLMDRILRKENID------LKLTPYKVLSTSLKYGFVQFI-DSQSLRHVRE
1840â 
                                                                                                                                                                                                                             1880â
                                                                                                                                         1840â 1860â 1880â
-NNTSQKTVIGKTPRRATTGGSNDSTESTVPNNVLGKFRKSCAAYCTAGFIIGLGDRHPSNIMLTPDGRLFHV
                                                                                                                                                                                             -QKAVHNFCHSTVAGSVLTFVLGLGDRHNDNIMMRENGQSFHI
-QIAIDNLTYSCAGYCVATYILGIGDRHNENIMVKKSGHLFHI
-RTALENLTYSCAAYCVATYILGIGDRHNDNIMVKQSGHLFHI
-EKALRNFFYSCAGWCVVTFILGVCDRHNDNIMLTKSGHMFHI
Myessoensis.XP_021346813.1_phosphatidylinosito1_45
Bbelcheri.LoC109481794_phosphatidylinosito1_4phosp EQ-GVTG---SFKDKPLADWLQKH----NAT-----
Aplanci.LoC110975484_phosphatidylinosito1_4phospha EY-GLTG---SFKDKPLADWLQKH----NFT-----
Hsapiens.NP_001364263.1_phosphatidylinosito1_4-pho EH-GVTG---SFKDRPLADWLQKH----NPG-----
                                                                                                                                                                            -EAEY-
                                                                                                                                                                                              -EKAVENEMESCAGYCVATYVI.GIGDRHNDNIMIKTIGHMEHI
                                                                                                                                                                                              QKAVENFTYSCAGYCVATYVLGIGDRHNDNIMVTRTGHMFHI
-EKAVENFIYSCAGCCVATYVLGICDRHNDNIMLKTTGHMFHI
Hsapiens.NP 002636.2 phosphatidylinositol 4-phosph EY-GVTG---SFKDKPLAEWLRKY---
                                                                                                                                        -NPS----
                                                                                                                                                                            -EEEY-
                                                                                                                                                                                              -EKASENFIYSCAGCCVATYVLGICDRHNDNIMLRSTGHMFHI
Myessoensis.XP_021340378.1_phosphatidylinositol_4p SY-GVTG---SFKDRPIKEWLQKH---NPT-------
Cintestinalis.LOC100175620_phosphatidylinositol_4p SY-GLTG---AFKDRPIAEWLEKY----NPT-------
Lanatina.XP_013408190.1_phosphatidylinositol_4phos SA-GVTG---SFKDRPIADWLKKH----NPT------
                                                                                                                                                                                               OKALENETSSCAGYCVATYVLGICDRHNDNIMLKOSGHMEHI
                                                                                                                                                                            -ELEY
                                                                                                                                                                                              -EKAVENFTLSCAGYCVATIVLGICDRHNDNIMLRSSGHLFHI
-RKAVSNFTLSCAGYCVATYVLGICDRHNDNIMLRSSGHLFHI
-RKAVSNFTLSCAGYCVATYILGICDRHNDNIMLKQSGHMFHI
-AEKL-
                                                                                                                                                                                              KSAVDLFTRSCAGYCVLTYVLGVADRHPDNIMVNERGQLFHI
                                                                                                                                                                            -PLEY-
                                                                                                                                                                                              OSAVRNFTLSCAGYSVATYVLGICDRHNDNIMLKTSGHLFHI
                                                                                                                                                                                              QGAVANN ILSCHISVATI VOGLOKRINDNIMENSORLFHI
- NEBAIRRETINSCAGYCVATFLIGIADRHNDNIMIKKNGQMFHI
- DQAIDTFTRSCAGYCVATFILGIGDRHSENIMVTEEGQVFHI
                                                                                                                                                                            -EEAY-
Aplanci.LOC110976503_phosphatidylinositol_45bispho KA-GIMGTL-QLKSSVLHQWIKEK----NK------
                                                                                                                                                                            -GDQY-
                                                                                                                                                                                              -DDAIDMFTKSCAGYCVATFILGIGDRHNDNIMVNENGQIFHI
-GETY-
                                                                                                                                                                                              -DAAIDLFTRSCAGYCVATFILGIGDRHNSNIMVKDDGOLFHI
                                                                                                                                                                                              DARAIEAFTLSCAGYCVATFILGIGDRHNDNIMVNEEGQIFHI
-QLAIETFTKSCAGYCVATFVLGIGDRHPDNIMVNEEGQVFHI
Lanatina.XP 013391443.1 phosphatidylinositol 45bis KR-GKKSAM-OLDSSOLHKWIKEK----NK-------
                                                                                                                                                                                              OLAIETFTKSCAGYCVATFVLGIGDRHPDNIMVNEEGOVFHI
                                                                                                                                                                            -GDKY-
-EEKF-
                                                                                                                                                                                              OAAVERFVYSCAGYCVATFVLGIGDRHNDNIMITETGNLFHI
                                                                                                                                                                                              WARVER VISCAGICVAITYULGIGDRINDNIMVTESGNLFHI
-EQAIENFTYSCAGYCVATFVLGVGDRHSDNIMVTEKGQLFHI
-NKAINEFTLSCAGYCVATYVLGVADRHSDNIMVKRNGQLFHI
                                                                                                                                                                            -ADKL
Aplanci.LOC110979051 phosphatidylinositol 45bispho SD-GSNKFNATFRKVALFNWLKKH----NPT----
                                                                                                                                                                            -EAQF-
                                                                                                                                                                                              -IRAIEDFTLSCAGYCVATYVLGIGDRHNDNIMVKKTGQLFHI
-KESL--
                                                                                                                                                                                              NKAVOEFTI.SCAGYCVATYVI.GVGDRHSDNIMIKETGOLFHI
                                                                                                                                                                                              -DRAIEEFTLSCAGYCVASYVLGIGDRHSDNIMVKKTGQLFHI
-DRAIEEFTLSCAGYCVATYVLGIGDRHSDNIMIRESGQLFHI
                                                                                                                                                                            -EENL---
                                                                                                                                                                                              QKAVKEFTMSCAGYSVATYVLGIGDRHNDNIMLKESGQLFHI
1900â
                                                                                                                    1920â
                                                                                                                                                      1940â
                                                                                                                                                                                          1960â
                                                                                                                                                                                                                             1980â
1900a 1920a 1940a 
Avaga.UJR28330.1_hypothetical_protein_I4U23_009572 DFGKYLGDTQKFGWF-NRDRAPFVFTKQMLYAMSDGG----TSND-----
Hsaplens.NP_001275701.1_phosphatidylinositol_4-pho DFGKFLGHAQTFGGI-KRDRAPFIFTSEMEYFITEGG----KNPQ-----
Myessoensis.XP_021346813.1_phosphatidylinositol_45
Bbelcheri.LOC109481794_phosphatidylinositol_4phosp DFGKFLGNAQMFGKI-KRDRAPFVLTSDMAYVINDGD-----RPST-----
                                                                                                                                                                               ----ALHRFVDLCCNAFCTIRONSSLLLLLLSHLCSSN------
                                                                                                                                                                                     --HFQDFVELCCRAYNIIRKHSQLLLNLLEMMLYAG-----
                                                                                                                                                                                       -RFQDFVDLCCEAFNIIRKNANLFINLFGLMLSSG---
Aplanci.LOC110975484 phosphatidylinositol 4phospha DFGKFLGNAQMFGNI-KRDRTPFVLTPEMAYVINGGE----KQSS------NFQNFVDLCSTAFNLVRHHADIFFNLFGLMLNAG-------
KFOEFIDLCCOAFNILRRHGNHLVTLIRMMEYSG-----
                                                                                                                                                                                       -DYKHFEDLCCRAYLSIRSRANLIINLFCMMLGAG-----
Myessoensis.XP_021367892.1_phosphatidylinositol_45 DFGHFLHHKKKKFGI-NREVPFVLTEDFHRVITRDSDKA-QKQE--Aplanci.LOC110976503_phosphatidylinositol_45bispho DFGHFLGHIKKKYGI-KRERVPFVLTEDFLKVITKKNDI--NKSP---Hsapiens.NP_006209.2_phosphatidylinositol_45bispho DFGHFLDHKKKKFGY-KRERVPFVLTQDFLIVISKGAQEC-TKTR---Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha DFGHFLGHFKKKFGY-KRERVPFVLTEDFLKVIAKGGDY--QKSK---
                                                                                                                                                                                       SEKKEAKMCMEAYI.VI.RENAHI.I.TNI.ETMMI.SCG------
                                                                                                                                                                                       EFKKFQELCCSAYLILRRSANLFISLFSMMLATG------
                                                                                                                                                                                       -EFERFQEMCYKAYLAIRQHANLFINLFSMMLGSG----
-EFKSFQELCRRAYLYLRKHANLFIVLFTMMLSTG----
Lanatina.XP_013391449.1_phosphatidylinositol_45bis DFGHFLDHRKKKFGI-NRERVPFVLTEDFIHVIAKGADNP-EKTE--
Lanatina.XP_013391443.1_phosphatidylinositol_45bis DFGHFLDHRKKKFGI-NRERVPFVLTEDFIHVIAKGADNP-EKTE--
Hsapiens.NP_001269355.1_phosphatidylinositol_4.5-b DFGHILGHVIKSFIGI-NRERVPFVLTPDFLEVMGTSGK----KTSP--
Cintestinalis.LOC100180112_phosphatidylinositol_45 DFGHFLGNTKRFYGI-QRERVPFVLTPDFVHVMGT-------EDGE--
                                                                                                                                                                                       EFGKFTELCGKAYIILRKHAOLFITLFSMMLSCG------
                                                                                                                                                                                       -EFGKETELCGKAYIILRKHAOLFITLESMMLSCG-----
                                                                                                                                                                                       -HFQKFQDICVKAYLALRHHTNLLIILFSMMLMTG-------
-LFQRFMDTCVLAYLVIRRHAPLFINLFHMMKSTG------
Cintestinalis.LOC100183611_phosphatidylinositol_45 DFGHILGNFKTKFGI-KRERVPFVLAHDFVHVINKGKT---NNKA----
                                                                                                                                                                                      -DFDQFRKLCDNAFCILRKKGYLIITLFALMLHSG-----
Dmelanogaster.Pi3R9ZE_phosphatidylinositol_3kinase DFGHILGHFKERLGV-REREVPFVLTHDFVYYINKGFND--RESK---
Aplanci.LOC110979051_phosphatidylinositol_45bispho DFGHFLGNYKRKFGF-KRERVPFVLVHDFVHVITRGKGT--STTT---
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp DFGHFLGNFKTKFGI-KRERVPFVLTHDFVHVITKGQST--QGSQ---
                                                                                                                                                                                       -EFCHFOELCERAFLVLRKHGCLILSLFSMMISTG------
                                                                                                                                                                                       Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp_DFGHILGNFKSKFGI-KRERVPFILTYDFIHVIQQGKT---GNTE-
-QYQEFRKQCYTAFLHLRRYSNLILNLFSLMVDAN----
anatina.XP_013404834.1_phosphatidylinositol_3kina DFGYILGRDPKPFPP-----PMKLSKEMVEAMGG-----TSSK------QFEDFRTLCYTSFLHLRRSANLILNLFSLMIHAN------
2000â
Avaga.UJR33052.1_hypothetical_protein_I4U23_020511 --
                                                                                                                    2020â
                                                                                                                                                       2040â
                                                                                                                                                                                                                             2080â
                                                                                                      -LPL--LNNVTHLNYLRQSLFLTGEKPYESKNAIQAYKRKIESAQNDT-RRFLDWIAHAFVHKPQR-
Myessoensis.XP 021346813.1 phosphatidylinositol 45
Beelcheri. LOC109481794_phosphatidylinositol_4phosp -------IPA--LSRTEDIQYVHNALKP---S-ASDAEATAHFTRLIEVSL-GSRATQINFFMHNLAQMRF----SGNAGDESLFTFSPK--------
Aplanci.LOC110975484_phosphatidylinositol_4phospha --------ISQ--LSKPEDLNYVQNALKP---K-ASDTEATTMITRLIEASL-GSKATQINFFIHNLAHH------SFSAANSLELSFAPK--------
Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho --------IPE--LSDLEDLKYVYDALRP---Q-DTEANATTYFTRLIESSL-GSVATKLNFFIHNLAQMK-----FTGSDDRLTLSFASR-------
```

Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph		
	IPGVSENAALYIQKALLPK-LTDAQASAIFTRMIEDSI	
	IPELSSKSDLKYVYDALKPN-AAETEATTMFTRLIESSI	
	IPGVTVSAAKYVQKALLPE-CSDAEATAMFTRMIEESI	
	LTELNSENDMAYLRQTFDLG-SNEQEACKRFELVLLDSY	
	MPGVNSNAVQYVRRALLPS-QSNPEAAATFAKMIQSSI	
	LPE-LTCASDLEYVRKTLAVELRDEEEALNYFNAKFNEANLPE-LSSFDDIEYIRASLAVE-KDETQAVQYFRDCLAAAQ	
	IPELQSLDDISYLRKTLAVE-KSERDAVEYFSKQFNIAV	
	IPELQSIDDISYLRKTMAVE-KEEAEALEYFMKQLNEAH	
	MPELQSFDDIAYIRKTLALD-KTEQEALEYFMKQMNDAH	
	IPELQSFDDIEYLRKTLAVE-MTDTEALQYFSSCFNEA	
	IPELQSPDDIGYLRKTLAVE-KSEEEAIEYFQQNLNEAR	
	IPELQSPDDIGYLRKTLAVE-KSEEEAIEYFQQNLNEAH	
	MPQLTSKEDIEYIRDALTVG-KNEEDAKKYFLDQIEVCF	
	D-KTEHEASQHFLSEIAGVI	
Cintestinalis.LOC100183611_phosphatidylinositol_45	LPEMTSLDHLEYLRETLALH-LTEQKALQQFRSKFNKAI	TDAWATSVNWFFHNVARDNT
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase	LPELSSEKDLDYLRETLVLD-YTEEKAREHFRAKFSEAI	ANSWKTSLNWASHNFSKNNKQ
${\tt Aplanci.LOC110979051_phosphatidylinositol_45bispho}$	D-RSDEEALKHFKGKFTEAI	KNSWKTSLDWMAHIIAHARD
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp	LPELTSPSDINYLKDKLALE-MTQEEALRHFREEFDNAI	KQSWKTSVNWWLHNIAKDNK
	LPELTSVKDIQYLKDSLALG-KSEEEALKQFKQKFDEAI	
	LPELSCSKDIQYLKDSLALG-KTEEEALKHFRVKFNEAI	
	IPQLTSVNDVEYLKDTLVLH-LSEDEAKEHFHTKFQEAI	NNSWKTSLNWWIHLKAH
Lanatina.XP_013393940.1_phosphatidylinositol_45bis		
	LPELTCMKDISYLNDTLVLN-YSEDEALKHFRSKFDEAI	
	IKDIARDPMKARDFVKERFCLD-ETEERAAHRFASRIFDS	
	IPDIALERDKTVKKLLDKFRLD-LDDEKATRYLKDLIDSS	
	IPDIALERDKTVKKLLDKFRLD-LDDEKAISYLKDLIDSS	
	VPDIALEPDKTVKKLQDKFRLD-LTDEEAVQYMQNLIDVS	
	IPDIALEPDKTVKKVQDKFRLD-LSDEEAVHYMQSLIDESV	
	IPDIALEPDKTVKKVQDKFVLH-LTDEEAVHYMQTVIDVS\VPDIALEPDKTVKKVQDKFKLE-LSDEEAVRHLQNEIDVS\	
Lanatina.XP_013404834.1_pnospnatidy11nosito1_3kina 2100		2160â 2180â
Avaga.UJR33052.1_hypothetical_protein_I4U23_020511		
	KFSPTSNTQPEMGLAKISVTDTALTRNGWYSRPAFKFEIQPENKNPTGAGDI	ST.RNGFCTVRDAOELKRI,AWRI,I,DSNHKSOPAT.NI,I,NRI,SET DDOMUN
	TYTITHDGKIRSAQIIDFEKRTEPSKHYLYKFKVERSRI	
	TYTIATDGKIKSAQVVSYEKRSHPTKHYVYKVKVERENINDSTMIHYQNS	
	SCLLSTTRSIERATILGFSKKSSNLYLIQVTHSNNET	
Myessoensis.XP_021346813.1_phosphatidylinositol_45		
	VYSMEKDGKITSLSVFGFQKRYSGEKYYVYIIKVYRQDREEP	TFVFRTYDELFELHORLTLAFPHNRLPSFPTRTVIGRSN
	RYTMAMDGKIASASMFGIQKRYEDAKYYVYIVSVLREGSSVP	
	THTLKSSGRISDVFLCRHEKIFHPNKGYIYVVKVMRENTHEA	
	TYSFRQDGRIKEVSVFTYHKKYNPDKHYIYVVRILREGQIEP	
Myessoensis.XP_021340378.1_phosphatidylinositol_4p	TYSANTDGKLKHVSLHSYQKRYEPDKHYIFIFKVERESQKLP	TYVFRHYSELVEFRTRIVELFPLVSWPPLPSRLVIGRSQ
Cintestinalis.LOC100175620_phosphatidylinositol_4p	-LQSHRDEDGTIAMATVVGYQKRYSPGKYYMFCVKVTREKNTTTKD	SYVFRTFSEFEELHRKLSFVYPSKLPSFSDSVVVGRSQ
Lanatina.XP_013408190.1_phosphatidylinositol_4phos	TYSVATDGKIGSVEIFGYQKRYSPEKFYIYIIKVGRQNQKVP	NFVFRKYTEFQEFHNKLVTMFPLAKLPSLQGRVLMGRTH
Avaga.UJR15173.1_hypothetical_protein_I4U23_002134		
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase	KYTMQQDGRLKIVKVVCFQKHYSMEKFYMYILEVTRHGQPDP	THLFRSYREFTEFHQKLCMHFPLVKLHSLPAGVHVGRSN
Egranulosus.XP_024352417.1_Phosphatidylinosito145b		
Cintestinalis.LOC100180252_LOW_QUALITY_PROTEIN_pho		
Myessoensis.XP_021367892.1_phosphatidylinositol_45		
Aplanci.LOC110976503_phosphatidylinositol_45bispho		
Hsapiens.NP_006209.2_phosphatidylinositol_4,5-bisp		
Bbelcheri.LOC109479966_LOW_QUALITY_PROTEIN_phospha		
Lanatina.XP_013391449.1_phosphatidylinositol_45bis		
Lanatina.XP_013391443.1_phosphatidylinositol_45bis		
<pre>Hsapiens.NP_001269355.1_phosphatidylinositol_4,5-b Cintestinalis.LOC100180112_phosphatidylinositol_45</pre>		
Cintestinalis.LOC100183611_phosphatidylinosito1_45		
Dmelanogaster.Pi3K92E_phosphatidylinositol_3kinase		
Aplanci.LOC110979051_phosphatidylinositol_45bispho		
Bbelcheri.LOC109480004_phosphatidylinositol_45bisp		
Hsapiens.NP_006210.1_phosphatidylinositol_4,5-bisp		
Hsapiens.NP 005017.3 phosphatidylinositol 4,5-bisp		
Myessoensis.XP_021346814.1_phosphatidylinositol_45		
Myessoensis.XP_021346814.1_phosphatidylinosito1_45 Lanatina.XP_013393940.1_phosphatidylinosito1_45bis		
Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis		
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Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_3k Avaga.UJR09391.1_hypothetical_protein_14U23_013634		TLPPTLLATFNI
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Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_3k Avaga.UJR09391.1_hypothetical_protein_I4U23_013634 Avaga.UJR36681.1_hypothetical_protein_I4U23_029398 Aplanci.LoC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_		TLPPTLLATFNI
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Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_3k Avaga.UJR09391.1_hypothetical_protein_I4023_013634 Avaga.UJR36681.1_hypothetical_protein_I4023_029398 Aplanci.LOC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase Myessoensis.XP_021360544.1_phosphatidylinositol_3kina 2200 Avaga.UJR33052.1_hypothetical_protein_I4023_020515 Egranulosus.XP_024350401.1_Phosphatidylinositol4ph Avaga.UJR21159.1_hypothetical_protein_I4023_024258 Avaga.UJR21359.1_hypothetical_protein_I4023_024258 Avaga.UJR28330.1_hypothetical_protein_I4023_024526	DA 2220Â 2240Â CAQPSPPSAVLLNSLTMALVELIQFHALDPSMMNFWKPTEADLRPDLPQKS: TRNIAQKRLNDIDEFLKHLFGLTNEIIESDIVSTFFQTIQRDQQLNDPKDD BYLVAQRRYDSINDFLRKLFQLTIEVIESDIVTFFFKTQDQQQINDTKEKS	2260â 2280â SSVTSNPSFSSRSSPPQPQSNRNSTETDKTPPPDYTAVQLTLELSTSCD KTSND
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Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_3k Avaga.UXR09391.1_hypothetical_protein_I4023_013634 Avaga.UXR36681.1_hypothetical_protein_I4023_013634 Avaga.UXR36681.1_hypothetical_protein_I4023_02938 Aplanci.LOC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_ Hsapiens.NP_0012658.2_phosphatidylinositol_3kinatina.XP_013404834.1_phosphatidylinositol_3kinatina.XP_013404834.1_phosphatidylinositol_3kinatina.XP_013404834.1_phosphatidylinositol_3kinatina.XP_024350401.1_Phosphatidylinositol_4phayaga.UXR23030.1_hypothetical_protein_I4023_020511 Egranulosus.XP_024350401.1_Phosphatidylinositol_4phayaga.UXR28330.1_hypothetical_protein_I4023_009572 Hsapiens.NP_001275701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_4-pho Hsapiens.NP_001364263.1_phosphatidylinositol_4-pho Hsapiens.NP_002636.2_phosphatidylinositol_4-pho Hsapiens.NP_002636.2_phosphatidylinositol_4-pho Hsapiens.XP_013403819.1_phosphatidylinositol_4ph Cintestinalis.LOC100175620_phosphatidylinositol_4pc Lanatina.XP_013408190.1_phosphatidylinositol_4pc Avaga.UXR15173.1_hypothetical_protein_I4023_002134	DA 2220Â 2240Â CAQPSPPSAVLINSLIMALVELIQFHALDPSMMNFWEPTEADLREDLPÇKSS TRMIAQKRLNDIDEFIKHLFGLINEIIESDIVSTFFQTIQRQQQLNDPKDDI DKIVAQRRVSDINDFIRKLFGLTIEVIESDIVITFFHKIQQDQQINDTKEKS SDHRRFRDLMHYMEQILMVSHEVTNSDCVLSFFLSEAVQQTVEES IKQVABRRQVDLMIYLKEVMSAPPQVSQSDLVYTFFHPMLRDEKDAGAANMI VNQVAEKRRNELDLFLRHLFALPPEVSQCDLVYTFFHPLRDEKAMGTSPAL IKDVAAKRKIELMSYLQSLMMASTDVAECDLVYTFFHPLRPDEKAMGTSPAL IKDVAAKRKIELMSYLQSLMMASTDVAECDLVYTFFHPLLRDEGESGIEKLI VKQVAERRKIKLNSYLSFLFKSQKTIAMHDLVYTFFHPILRDEGESGIEKLI VKQVAERRKIKLNSYLSFLFKSQKTIAMHDLVYTFFHPILRDEGESGIEKLI VKQVAERRKIKLNSYLSFLFKSQKTIAMHDLVYTFFHPILRDEGESGIEKLI VKQVAERRKIKLNSYLSFLFKSQKTIAMHDLVYTFFHPILRDEGESGIEKLI VKQVAERRKIKLNSYLSFLFKSQKTIAMHDLVYTFFHPILRDEGESGIEKLI	2260â 2280â SVTSNPSFSSRSSPPQPQSNRNSTETDKTPPPDYTAVQLTLELSTSCD KTSND — PLGRNQFKTRURLKYDNK HIDDFSSRSSYENSS — NNQAKITQLKYDNG SPVYLGEKFPDKKP — KVQLVISYEDV "KIGDSSQRPP — TIGQVGGSVKLSIHYKKN VKLKNGPLFPTDSDDPITTDTVEPTV — APGGFSGRVQVAIRYQKD KSSDGTWAR — PVGKVGGGVKLSISYKNG NDAGSFSP — TFGGIGGAVKLSISYRNG TYGKRRVNPVQLI — QHPNQFGGLKJLSIKYSKE SSPDL — TVGGEIKVSLHYKNN KLKEAKPTVA — PVRLIHGQIKMSLQYKNG
Lanatina.XP_013393940.1_phosphatidylinositol_45bis Lanatina.XP_013393974.2_phosphatidylinositol_45bis Egranulosus.XP_024352493.1_Phosphatidylinositol_3k Avaga.UJR09391.1_hypothetical_protein_14023_013634 Avaga.UJR36681.1_hypothetical_protein_14023_013634 Avaga.UJR36681.1_hypothetical_protein_14023_01393 Aplanci.LOC110987621_phosphatidylinositol_3kinase_ Hsapiens.NP_002638.2_phosphatidylinositol_3kinase_Myessoensis.XP_021360544.1_phosphatidylinositol_3kinase_Myessoensis.XP_021360544.1_phosphatidylinositol_3kinase_Myessoensis.XP_021360544.1_phosphatidylinositol_3kinase_Myessoensis.XP_021360544.1_phosphatidylinositol_4phoxpaga.UJR21159.1_hypothetical_protein_14023_020511 Egranulosus.XP_024350401.1_Phosphatidylinositol_4phoxpaga.UJR21159.1_hypothetical_protein_14023_009572 Avaga.UJR21159.1_hypothetical_protein_14023_009572 Avaga.UJR21159.1_hypothetical_protein_14023_009572 Bapiens.NP_0013675701.1_phosphatidylinositol_4-pho Myessoensis.XP_021346813.1_phosphatidylinositol_4-phosph Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph Hsapiens.NP_002636.2_phosphatidylinositol_4-phosph Myessoensis.XP_021340378.1_phosphatidylinositol_4-phosph Myessoensis.XP_021340378.1_phosphatidylino	Dâ 2220â 2240â CAQPSPPSAVLLNSLTMALVELIQFHALDPSMMNFWKPTEADLRPDLPQKSS TRMIAQKRLNDIDEFLKHLFGLTNEIIESDIVSTFFOTIQRDQQLNDPKDD BKIVAQRRVSINDFLRKLFQLITEVIESDLVISTFFKTQDQQINDTKEKS SDHRFRDLNHYMEQILNVSHEVTNSDCVLSFFLSEAVQQTVEES IKQVAERRQUDLNIYLKEVMSAPPQVSQSDLVYTFFHPLRDEKNAGAANMI VNQVAEKRRNELDLFLRHLFALPPEVSQCDLVYTFFHPLFRDEKABGLAFKS GEAVAERRREELINSYLQSLMMASTDVAECDLVVTFFHPLLRDEKAEGIARSI VKSVAESKKPEIBKFLAELWQKTAEIKESDLVYTFFHTLLRDEKAEGIARSI VKSVAESKKPIEKFLAELWQKTAEIKESDLVYTFFHTLLRDEKAEGIARSI VKSVAKRKIELSHYLSFLFSKSKTLAMDLVYTFFHPLLRDEKAVETHV VKSVAKRRKIELEHFLRELLQMATEISECDLVYTFFHPMLRDEQVIENDL IKSVAEKRLPLIQRFLKSLFDASSEIAHSELVYTFFHPLLRDQQEAKLGMPPI	2260â 2280â
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Cintestinalis.LOC100180112_phosphatidylinositol_45				
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Hsapiens.NP_005017.3_phosphatidylinositol_4,5-bisp				
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Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase				
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Lanatina.XP_013393974.2_phosphatidylinositol_45bis				
Egranulosus.XP_024352493.1_Phosphatidylinositol_3k				VLGLDENGGHSLDLHLDVR
Avaga.UJR09391.1_hypothetical_protein_I4U23_013634 Avaga.UJR36681.1_hypothetical_protein_I4U23_029398				
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Avaga.UJR15173.1_hypothetical_protein_I4U23_002134				
Dmelanogaster.Pi3K68D_phosphatidylinositol_3kinase				
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Lanatina.XP_013393940.1_pnospnatidylinosito1_45bis Lanatina.XP_013393974.2_phosphatidylinosito1_45bis				
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Avaga.UJR09391.1_hypothetical_protein_I4U23_013634				
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Number of sequences: 41 Alignment width: 2527 Sequence type: aa