Company			
022332341. CIMMP4 (chromosome 9	022303233.1 GIMAP4 chromosome 9		5
02231523.1 GTMAP d.tromosome 9 1 SOURMARAFGHITKADTSGATT IFSEK	022303234.1 GIMAP4 chromosome 9		5
02233187. I GTMAP d.hromsome 4	022310523.1 GIMAP4 chromosome 9	NEERNIILLGKLGAGKSHSGNG 25	5
02233187. I GTMAP d.hromsome 4	022332185.1 GIMAP4 chromosome 4	ISCQEMAHAKPGNLTKADTSGAQTTIFSEKIE <mark>ERRIIL</mark> I <mark>GK</mark> LGAGKSHCGNG 60	J
02233260.1 GYAMA chromosome	022332187.1 GIMAP4 chromosome 4	MAHAKPGNLTKADTSGAQTTIFSEKIE <mark>ERRIIL</mark> I <mark>GK</mark> LGAGKSHCGNG 47	7
02233260.1 GYAMA thrososome A	022332188.1 GIMAP4 chromosome 4	MAHAKPGNLTKADTSGAQTTIFSEKIEERRIILIGKLGAGKSHCGNG 47	7
02233260.1 GYAMA thrososome A	022332605.1 GIMAP4 chromosome 4	MAHAKPGNLTKADTSGAQTTIFSEKIE <mark>ERRIIL</mark> I <mark>GK</mark> LGAGKSHCGNG 47	
022382607.1 GTMAN4 chromosome 4 MARAFORLTRADTSCAQTT IFSEE	022332606.1 GIMAP4 chromosome 4	MAHAKPGNI.TKADTSGAQTTIFSEKIEERBITII.TGKI.GAGKSHCGNG 47	7
02232190.1 GTMAP4 chromosome 4	022332607.1 GIMAP4 chromosome 4	MAHAYDONI TYADTOOAOTT TEGEY TEEDDITI TOYI CAOYGUCANO AS	7
	022332190.1 GIMAP4 chromosome 4	veerriillgklgagkshsgng 42	2
	022332191.1 GIMAP4 chromosome 4	veerriillgklgagkshsgng 42	2
	022332600.1 GIMAP4 chromosome 4	MSIQEVSHSQRSAMNRAQTAVTQAEGATSAGENVEERRIILLGKLGAGKSQSGNG 55	
022297285.1 GIMAP4 chromosome 7 VLITPPUNSKHKICHBNKGRDKDGVCTKNSI. DSSNN	022332601.1 GIMAP4 chromosome 4	MSIQEVSHSQRSAMNRAQTAVTQAEGATSAGENVEERRIILLGKLGAGKSQSGNG 55	5
022297285.1 GIMAP4 chromosome 7 VLITPPUNSKHKICHBNKGRDKDGVCTKNSI. DSSNN	022332602.1 GIMAP4 chromosome 4	MSIQEVSHSQRSAMNRAQTAVTQAEGATSAGENVEERRIILLGKLGAGKSQSGNG 55	5
022297285.1 GIMAP4 chromosome 7 VLITPPUNSKHKICHBNKGRDKDGVCTKNSI. DSSNN	022287294.1 GIMAP4 chromosome 6	MAASSELDFNNEVRILLIGKTGTGKSTTGNT 31	1
02229453.1 CIMAP4 chromosome 7	022287295.1 GIMAP4 chromosome 6	MAASSELDFNNEVRILLIGKTGTGKSTTGNT 31	1
022291927.1 GIMAP4 chromosome 7	022292452.1 GIMAP4 chromosome 7	VLITFPNVMSKMHCHDNKGRDKDGYCTKNSIDSSNN <mark>ERRILL</mark> IGKTGVGKS <mark>TTGNT</mark> 69	Э
022295273.1 GIMAP4 chromosome 7	022292453.1 GIMAP4 chromosome 7	VLITFPNVMSKMHCHDNKGRDKDGYCTKNSKDSSNN <mark>ERRILL</mark> IGKTGVGKS <mark>TTGNT</mark> 69	Э
022295273.1 GIMAP4 chromosome 7	022291927.1 GIMAP4 chromosome 7	VLIASPNVMSKRDYHDDNDFNNN <mark>ERRILL</mark> IGKTGVGKSTTGNT 56	3
	022295273.1 GIMAP4 chromosome 7	VLIVFPLISSPMDCQDGNDEKEEGYCSTKSIAINSN <mark>EIRILL</mark> IGKTGVGKSTTGNT 73	3
	022295274.1 GIMAP4 chromosome 7	VLIVFPLISSPMDCQDGNDEKEEGYCSTKSIAINSN <mark>EIRILL</mark> IGKTGVGKSTTGNT 73	3
	022295275.1 GIMAP4 chromosome 7	VLIVFPVISSPMDCQDGNDEEEEGYCSTKSIAINND <mark>EVRILL</mark> I <mark>GKTGVGKS</mark> TTGNT 73	3
	022295276.1 GIMAP4 chromosome 7	VLIVFPVISSPMDCQDGNDEEEEGYCSTKSIAINND <mark>EVRILL</mark> I <mark>GKTGVGKS</mark> TTGNT 73	
022295279.1 GTMAP4 chromosome 7	022295277.1 GIMAP4 chromosome 7	VLIVFPVISSPMDCQDGNDEEEEGYCSTKSIAINNDEVRILLIGKTGVGKSTTGNT 73	
02295280.1 GIMAP4 chromosome 7		VLIVFPVISSPMDCQDGNDEEEEGYCSTKSIAINND <mark>EVRILL</mark> I <mark>GKTGVGKS</mark> TTGNT 73	
	022295279.1 GIMAP4 chromosome 7	VLIVFPVISSPMDCQDGNDEEEEGYCSTKSIAINND <mark>EVRILL</mark> I <mark>GKTGVGKS</mark> T <mark>TGNT</mark> 73	
		VLIVFPLISSPMDCQDGNDEKEEGYCSTKSIAINND <mark>EVRILL</mark> I <mark>GKTGVGKS</mark> T <mark>TGNT</mark> 73	
C22295281.1 GTMAP4 chromosome 7		VLIVFPLISSPMDCQYGNDEEKEEYCSTNPIAINND <mark>EVRI</mark> LL <mark>IGKTGVGKS</mark> TTGNT 66	
		VLIVFPLISSPMDCQYGNDEEKEEYCSTNPIAINND <mark>EVRI</mark> LL <mark>IGKTGVGKS</mark> TTGNT 66	
		LLFAFALHNVTSQCHSEKDKNEDGYCTKNVNNN <mark>EVRI</mark> LL <mark>IGKTGVGKS</mark> TTGNT 63	
C22294708.1 GIMAP4 Chromosome 7		LVFAFALHNVTSQCHSEKDKNEDGYCTKNVDNN <mark>EVRILL</mark> I <mark>GKTGVGKS</mark> T <mark>TGNT</mark> 63	
C22294705.1 GIMAP4 Chromosome 7		LFIAFPNTASKRVCYNVKD	
C22294708.1 GIMAP4 chromosome 7		LFIAFPNTASKRVCYNVKDMDHNERHLLII <mark>GKTG</mark> TGKS <mark>S</mark> SA <mark>GN</mark> A 53	
C22295729.1 C1MAP7 Chromosome 6			
O22287296.1 GIMAP7 Chromosome 6			
O22301435.1 GIMAP7 Chromosome Stylnhelintscvvcgfalssndtllddqinsnshdpfkeesnfsldhqasgddfire Vgktgfgkaftons 93		SDSNEIRILLIGKTEAGKSCTGNT 27	
O22301436.1 GIMAP7 Chromosome 8			
O22302475.1 GIMAP7 Chromosome 8			
O22302477.1 GIMAP7 Chromosome 8			
022299755.1 GIMAP4 Chromosome S			
022304158.1 GIMAP7 chromosome 9 KELKKISPEKSSYSTASQF YDEETRIVLLGKTGSGKSATGNS 140 022304950.1 GIMAP7 chromosome 8 YEIYKR KLTIRIVLLGKTGSGKSATGNS 36 022299405.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEETRLVLLGKTGSGKSATGNT 166 022299416.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEETRLVLLGKTGSGKSATGNT 153 022299418.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEETRLVLLGKTGSGKSATGNT 152 022299408.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEETRLVLLGKTGSGKSATGNT 152 022299407.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEETRLVLLGKTGSGKSATGNT 164 022299410.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEETRLVLLGKTGSGKSATGNT 165 022299411.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEETRLVLLGKTGSGKSATGNT 155 022299412.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEET		TVI NDD TUTGON CONDUCTOR CONTROL CONTR	
022299405.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 166 022299409.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 163 022299418.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 152 022299418.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 152 022299408.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 164 022299410.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 165 022299410.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 163 022299411.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299412.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299413.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299415.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299415.		IYLNDPIVISCNLCGHDKIKEINKAGGMSSIGIGGIDIGSKDVDEVKIILVGKIGAGKSAIGNI 125	
022299405.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 166 022299409.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 163 022299418.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 152 022299418.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 152 022299408.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 164 022299410.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 165 022299410.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 163 022299411.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299412.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299413.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299415.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT. YKEE IRLVLLGKTCS GKSATGNT 155 022299415.		VETVED	
022299409.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT164022299418.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT153022299408.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT152022299407.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT164022299410.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT165022299410.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT163022299411.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT155022299412.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT155022299413.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT155022299414.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT155022299415.1 GIMAP7chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT155022299415.1 GIMAP4chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKE TRLVLLGKTGSGKSATGNT155022291053.1 GIMAP4chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCPAERBURLULLGKTGSGKSATGNT38022297635.1 GIMAP4chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCPAERBURLULLGKTGSGKSATGNT37022310198.1 GIMAP4chromosome 9 <td></td> <td>DEFYICATION FOR CONCERNATION FOR THE STATE OF THE STATE O</td> <td></td>		DEFYICATION FOR CONCERNATION FOR THE STATE OF THE STATE O	
022299416.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILGKTGS GKSATGNT 153 022299418.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILGKTGS GKSATGNT 152 022299408.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILGKTGS GKSATGNT 164 022299407.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILGKTGS GKSATGNT 165 022299410.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILGKTGS GKSATGNT 163 022299411.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILLGKTGS GKSATGNT 155 022299413.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILLGKTGS GKSATGNT 155 022299414.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILLGKTGS GKSATGNT 155 022299415.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILLGKTGS GKSATGNT 155 022299415.1 GIMAP7 chromosome 8 DFEKISTTQRKEACPSSHFEKTENRFSFDKYT YKEE IRLVILLGKTGS GKSATGNT 155 0222991053.1 GIMAP4 chromosome 7 NNEIJOGRMEISSPKDVMGREKQEMWDFSEVCP AERE VRLVILLGKTGS GKSATGNT 37 022297635.1 GI		DEEKIGTTORKEACESSOREEKTENREGERKYT VKEETDI VII AVTEGOKGATGNI 100	-
022299407.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT165022299410.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT163022299411.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299412.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299413.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299414.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299415.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT1550222991053.1 GIMAP4 chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCPAEREVRLVLLGKTGSGKSATGNT154022297635.1 GIMAP4 chromosome 8SSKRRPREEIQNMEEIRLVLLGKTGSGKSATGNT38022335699.1 GIMAP4 chromosome 5SSKSVSLEKSKKEEIRLVLLGKTGSGKSATGNT37022310198.1 GIMAP4 chromosome 9SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRIVLIGKTGCGKSTTGNS135		DEEKISTIQUEECESSOFEKIENEESPURIT	
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022299410.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYT.YKEEIRLVILGKTGSGKSATGNT163022299411.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYT.YKEEIRLVILGKTGSGKSATGNT155022299412.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYT.YKEEIRLVILGKTGSGKSATGNT155022299413.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYT.YKEEIRLVILGKTGSGKSATGNT155022299414.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYT.YKEEIRLVILGKTGSGKSATGNT155022299415.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYT.YKEEIRLVILGKTGSGKSATGNT154022291053.1 GIMAP4 chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCP.AEREVRLVILGKTGSGKSATGNT138022297635.1 GIMAP4 chromosome 8SSKRPREEIQN.MEEIRLVILGKTGSGKSATGNT38022335699.1 GIMAP4 chromosome 5SSKSVSLEKSK.KEEIRLVILGKTGSGKSATGNT37022310198.1 GIMAP4 chromosome 9SSHFVPGREAKSQSMESEKTSADDSCSMPDSRS.IPQEVRTVLIGKTGCGKSTTGNS135		DEFITSTIGHT OF CONSULER TENERS PORT 165	
022299412.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299413.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299414.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299415.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT154022291053.1 GIMAP4 chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCPAEREVRLVLLGKTGSGKSATGNT38022297635.1 GIMAP4 chromosome 8SSKRPREEIQNMEEIRLVLLGKTGSGKSATGNT38022335699.1 GIMAP4 chromosome 5SSKSVSLEKSKKEEIRLVLLGKTGSGKSATGNT37022310198.1 GIMAP4 chromosome 9SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRTVLIGKTGCGKSTTGNS135		DEFITS TORKE CDSSHERVENDESSERVYT VKETTRI VII GKTGSGKSATGNT 163	
022299412.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299413.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299414.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299415.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT154022291053.1 GIMAP4 chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCPAEREVRLVLLGKTGSGKSATGNT38022297635.1 GIMAP4 chromosome 8SSKRPREEIQNMEEIRLVLLGKTGSGKSATGNT38022335699.1 GIMAP4 chromosome 5SSKSVSLEKSKKEEIRLVLLGKTGSGKSATGNT37022310198.1 GIMAP4 chromosome 9SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRTVLIGKTGCGKSTTGNS135		DEEKISTTORKEACPSSHEEKTENRESEDKYT VKEETRI VI I CKTCSCKSATCHT 155	
022299414.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299415.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT154022291053.1 GIMAP4 chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCPAEREVRLVLLGKTGSGKSASGNS129022297635.1 GIMAP4 chromosome 8SSKRRPREEIQNMEEIRLVLLGKTGSGKSATGNT38022335699.1 GIMAP4 chromosome 5SSKSVSLEKSKKEEIRLVLLGKTGSGKSATGNT37022310198.1 GIMAP4 chromosome 9SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRTVLIGKTGCGKSTTGNS135		DEEKISTTORKEACPSSHEEKTENRESEDKYT VKEETRI VII I CKTCSCKSATCHT 155	
022299414.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT155022299415.1 GIMAP7 chromosome 8DFEKISTTQRKEACPSSHFEKTENRFSFDKYTYKEEIRLVLLGKTGSGKSATGNT154022291053.1 GIMAP4 chromosome 7NNEIIDGRMEISSPKDVMGREKQEMWDFSEVCPAEREVRLVLLGKTGSGKSASGNS129022297635.1 GIMAP4 chromosome 8SSKRRPREEIQNMEEIRLVLLGKTGSGKSATGNT38022335699.1 GIMAP4 chromosome 5SSKSVSLEKSKKEEIRLVLLGKTGSGKSATGNT37022310198.1 GIMAP4 chromosome 9SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRTVLIGKTGCGKSTTGNS135		DEEKISTTORKEACPSSHEEKTENRESEDKYT VKEETRI VII I CKTCSCKSATCHT 155	
022297635.1 GIMAP4 chromosome 8 SSKRRPREEIQN		DEEKISTTORKEACPSSHEEKTENRESEDKYT	
022297635.1 GIMAP4 chromosome 8 SSKRRPREEIQN		DFEKISTTORKEACPSSHFEKTENRESEDKYT	
022297635.1 GIMAP4 chromosome 8 SSKRRPREEIQN		NNETIDGRMEISSPKDVMGREKQEMWDFSEVCP. AEREVRI.VII.GKTGSGKSASGNS 129	
022335699.1 GIMAP4 chromosome 5SSKSVSLEKSKKEFIRLVILGKTGSGKSATGNT 37 022310198.1 GIMAP4 chromosome 9 SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRTVLIGKTGCGKSTTGNS 135		SSKRRPREEION	
022310198.1 GIMAP4 chromosome 9 SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRIVLIGKTGCGKSTTGNS 135		SSKSVSLEKSK KEETBI.VI.I.GKTGSGKSATGNT 37	
022296314 1 GIMAP4 chromosome 8 MTP IDRETRIVILGKTGSGKSATGNT 26		SSHFVPGREAKSQSMESEKTSADDSCSMPDSRSIPQEVRTVLIGKTGCGKSTTGNS 13F	
		MIP IDRETRIVILGET CREATENT 26	

022303233.1 GIMAP4 chromosome 9	ILGLEGHFKTKKGWSSSTKVCEYGYAKRNGCTYRVFDTPGINSF.	EEMKE.IDVDA <mark>EI</mark> IR <mark>C</mark> LFCT <mark>S</mark> 89
022303234.1 GIMAP4 chromosome 9	ILGLEGHFKTKKGWSSSTKVCEYGYAKRNGCTYRVFDTPGINSF	EEMKE.IDVDA <mark>EI</mark> IR <mark>C</mark> LFCT <mark>S</mark> 89
022310523.1 GIMAP4 chromosome 9	ILGLEGHFKTKKGWSSSTKVCEYGYAK <mark>RNG</mark> CTYRVFDTPGINSF ILGIKDHF <mark>ESRKGWSSTTKTC</mark> KYGCADRNNRKYRVFDTPGINSI	NDMNETIDVDTEIIRCLFCTS 90
022332185.1 GIMAP4 chromosome 4	ILG.KQFFESRRCWSSVTRQCKYGSATRNKFLYRIYDTPGVNSP	EELATSVDVETDIRRCLYCTS 124
022332187.1 GIMAP4 chromosome 4	ILG.KQFFESRRCWSSVTRQCKYGSATRNKFLYRIYDTPGVNSP	EELATSVDVETDIRRCLYCTS 111
022332188.1 GIMAP4 chromosome 4	ILG.KQFFESRRCWSSVTRQCKYGSATRNKFLYRIYDTPGVNSP	EELATSVDVETDIRRCLYCTS 111
022332605.1 GIMAP4 chromosome 4	ILG.KQFFESRRCWSSVTRQCKYGSATRNKFLYRIYDTPGINSP	EELATIVDVETDIRRCLYCTS 111
	ILG.KQFFESRRCWSSVTRQCKYGSATRNKFLYRIYDTPGINSP	EE
022332606.1 GIMAP4 chromosome 4	TLG. KUFFESKKCWSSVIKUCKYGGATRNKFLYRIYDIPGINSP	EELATIVDVETDIRRCLYCTS 111
022332607.1 GIMAP4 chromosome 4	ILG.KQFFESRRCWSSVTRQCKYGSATRNKFLYRIYDTPGINSP	EELATIVDVETDIRRCLYCTS 111
022332190.1 GIMAP4 chromosome 4	IMGKKDYFKSKQCWSSVTRQCEYGVSIRNGYKYRVFDTPGVNSP IMGKKDYFKSKQCWSSVTRQCEYGVSIRNGYKYRVFDTPGVNSP	KRLEKEVDVDTEIRRCLFCTS 107
022332191.1 GIMAP4 chromosome 4	IMGKKDYFKSKQCWSSVTRQCEYGVSIRNGYKYRVFDTPGVNSP.	KRLEKEVDVDT <mark>EI</mark> RR <mark>C</mark> LFCT <mark>S</mark> 107
022332600.1 GIMAP4 chromosome 4	ILGEKDYFKSKQCWSSVTRECEYGVSIRNGYKYRVFDTPGVNSP	KRLEKEVDVDT <mark>EI</mark> RR <mark>C</mark> LFCT <mark>S</mark> 120
022332601.1 GIMAP4 chromosome 4	ILGEKDYFKSKQCWSSVTRECEYGVSIRNGYKYRVFDTPGVNSP.	KRLEKEVDVDT <mark>EI</mark> RR <mark>C</mark> LFCT <mark>S</mark> 120
022332602.1 GIMAP4 chromosome 4	ILGEKDYFKSKQCWSSVTRECEYGVSIRNGYKYRVFDTPGVNSP.	KRLEKEVDVDT <mark>EI</mark> RR <mark>C</mark> LFCT <mark>S</mark> 120
022287294.1 GIMAP4 chromosome 6	ILG.RKAFATMLSATPVTSKTEYQMERRFGKKLVVVDTPGLCDP	SQSDTKIIT <mark>EI</mark> SKWYTLM <mark>S</mark> 93
022287295.1 GIMAP4 chromosome 6	ILG.RKAFATMLSATPVTSKTEYOMERRFGKKLVVVDTPGLCDP	SQSDTKIIT <mark>EI</mark> SKWYTLM <mark>S</mark> 93
022292452.1 GIMAP4 chromosome 7	ILG.RKAFATMLSATPVTSKTEYQMERRFGKKLVVVDTPGLCDP ILG.RKAFATMLSATPVTSKTEYQMERRFGKKLVVVDTPGLCDP ILG.FDAFHTKTSATSVTTQTQFSETERFGRRLVVVDTPGLFDT	TKTKEELKLEISRWYALVS 131
022292453.1 GIMAP4 chromosome 7	ILG.FDAFDSKTSTTSVTTQTQFSETERFGRRLVVVDTPGLFDT ILG.FPAFKTDTSATSVTTQTQYNEADRFGKRLIVVDTPGYLDT	TKTKEELKLEISRWYSILS 131
022291927.1 GIMAP4 chromosome 7	II C FPAEKTDTSATSVTTOTOVNEADRECKRI IVVDTPCVI DT	NMTKNEIEMEISRWYSLVS 118
022295273.1 GIMAP4 chromosome 7	II C EPAECTKUSASSUTTOTOVNETEDECKRI VVVDTRCLEDT	NRTEQDILVEMSKWYSLVS 135
022295274.1 GIMAP4 chromosome 7	ILG.FRAFGTKVSASSVTTQTQYNETERFGKRLVVVDTPGLFDT ILG.FRAFGTKVS <mark>A</mark> SSVTTQTQYNETERFGKRLVVVDTPGLFDT	NRTEQDILVEMSKWYSLVS 135
	ILG.FRAFDTKVSASSVITQTQYNETDRFGKRLVVVDTPGLFDT	NDTEDETI VENGVUVQI VQ 425
022295275.1 GIMAP4 chromosome 7	ILG.FRAFDIKVSASSVIIQIQINEIDRIGKELVVVDIPGLIDI	NRTEQEILVEMSKWYSLVS 135
022295276.1 GIMAP4 chromosome 7	ILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT ILG.FRAFDTKVS <mark>A</mark> SSVTTQTQYNETDRFGKRLVVVDTPGLFDT	NRTEQEILVEMSKWYSLVS 135
022295277.1 GIMAP4 chromosome 7	ILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT	NRTEQEILVEMSKWYSLVS 135
022295278.1 GIMAP4 chromosome 7	ILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT	NRTEQEILVEMSKWYSLVS 135
022295279.1 GIMAP4 chromosome 7	ILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT ILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT	NRTEQEILV <mark>E</mark> MS <mark>K</mark> WYSLV <mark>S</mark> 135
022295280.1 GIMAP4 chromosome 7	ILG.FRAFDTKVSASSVTTQTQYNETDRFGKRLVVVDTPGLFDT	NRTEQEILV <mark>E</mark> MS <mark>K</mark> WYSLV <mark>S</mark> 135
022295286.1 GIMAP4 chromosome 7	ILG.FHAFDTKVSASSVTTKTQYNETERFGKRLVVVDTPGLFDT	NRTEQEILV <mark>EI</mark> SKWYSLV <mark>S</mark> 128
022295287.1 GIMAP4 chromosome 7	ILG.FHAFDTKVSASSVTTKTQYNETERFGKRLVVVDTPGLFDT ILG.FHAFDTKVSASSVTTKTQYNETERFGKRLVVVDTPGLFDT	NRTEQEILV <mark>EI</mark> SKWYSLV <mark>S</mark> 128
022295281.1 GIMAP4 chromosome 7	ILG.FRAFDTKVSASSVTTKTQCNETERFGKRLVVVDTPGLFDT	IRTEQETLV <mark>EM</mark> SKWYSLV <mark>S</mark> 125
022295282.1 GIMAP4 chromosome 7	ILG.FRAFDTKVSASSVITKTQTNETERFGKKLVVVDTFGLFDT ILG.FRAFDTKVSASSVTTKTQCNETERFGKRLVVVDTFGLFDT ILG.FRAFDTKVSASSVTAQTQYNETDRFGKRLVVVDTFGLFDT ILG.FPAFNTDLSAQSVTKFSQISKTERFGKKLVVVDTFGYSDG ILG.FPAFNTDLSAQSVTKFSQISKTERFGKKLVVVDTFGYSDG	IRTEQETLVEISKWYSLVS 125
022294703.1 GIMAP4 chromosome 7	ILG.FPAFNTDLSAQSVTKFSQISKTERFGKKLVVVDTPGYSDG	NMTDTEILEEISRWHLFAS 115
022294704.1 GIMAP4 chromosome 7	ILG.FPAFNTDLSAQSVTKFSQISKTERFGKKLVVVDTPGYSDG	NMTDTEILEEISRWHLFAS 115
022294705.1 GIMAP4 chromosome 7	ILG.FPAFNTDLSAQSVTKFSQISKTERFGKKLVVVDTPGYSDG ILG.FPAFNTDLSAQSVTKFSQISKTERFGKKLVVVDTPGYSDG	NMTDTEILEEISRWHLFAS 115
022294708.1 GIMAP4 chromosome 7	ILG FPAENTDLSAQSVTKESQISKTEREGKKLVVVDTPGYSDG	NMTDTEILEEISRWHLFAS 115
022295072.1 LOW QUALITY GIMAP4 chromosome 7	IID EKAEASCISAKSVIERTOENEAKRECKKI VVVDIIGIDD	NRSEKEILTEIFRWYSLVS 89
022287296.1 GIMAP7 chromosome 6	LLD.FKAFASGISAKSVTERTQFNEAKRFGKKLVVVDTXGYLDT ILG.FHAFDTKLSAASVTSKTECKENDRFGKQLVVVDTPGFFHT	ELTEEELRNEYCKWSEHIS 93
022301435.1 GIMAP7 chromosome 8	II C KAAETSDUSMSSTTKHCKMCTASDECODII VVDTDCIEDT	VILSPLGMSNDEITTEILKCVGISA 159
022301436.1 GIMAP7 chromosome 8	ILG.KAAFTSDVSNSSITKHCKMGTASRFGQDLLVVDTPGLFDT ILG.KAAFTSDVSNSSITKHCKMGTASRFGQDLLVVDTPGLFDT ILG.KAAFTSEVSNCSITKHCKRGTASRFGHDLLVVDTPGLFDT	GMSNDEITTEILKCVGISA 155
022301430.1 GIMAP7 CHIOMOSOME O	TLG. KAAFTOD VONOOTTKUGKDGTAGDEGUDLI WADTDGLEDT	
022302475.1 GIMAP7 chromosome 8	ILG.KAAFTSEVSNCSITKHCKRGTASRFGHDLLVVDTPGLFDT	
022302477.1 GIMAP7 chromosome 8	TLG. KAAFISEVSNCSTIKHCKRGIASRFGHDLLVVDIPGLFDI	
022299725.1 GIMAP4 chromosome 8	ILG.KKVFHSEVSNSSITKNCKRGSSDRFGHRVLVVDTPGLFDT	GMTNDAITTEILKCVGLSA 187
022304158.1 GIMAP7 chromosome 9	IFG.KRRFISHSSASSVTRTCCFKTEFRFNKKIVIVDTPGFFDT	KQSNKIIQDEISKCITLSS 202
022304950.1 GIMAP7 chromosome 9	I <mark>IG.SAQFKSSASGHPLTSTCSFQSAD</mark> RFGKEIVVVDTPGLFDT	KKTTKKVLNEISKCIGLSS 148
022299405.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TQSNEDIQEEIKKCVLLTS 228
022299409.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TKKCVLLTS 226
022299416.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TSNEDIQEEIKKCVLLTS 215
022299418.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPG <mark>I</mark> FDT	TSNEDIQEEIKKCVLLTS 214
022299408.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TKCVLLTS 226
022299407.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TKCVLLTS 227
022299410.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TSNEDIQEEIKKCVLLTS 225
022299411.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TSNEDIQEEIKKCVLLTS 217
022299412.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TQSNEDIQEEIKKCVLLTS 217
022299413.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TQSNEDIQEEIKKCVLLTS 217
022299414.1 GIMAP7 chromosome 8	ILG.KYNFESTFSGSSVTRVCSKKFSIRFGYKLLVVDTPGIFDT	TQSNEDIQEEIKKCVLLTS 217
022299414.1 GIMAP7 Chromosome 8	ILG.KYNFESTFSGSSVIRVCSKKFSIRFGYKLLVVDTPGIFDT	TQSNEDIQEEIKKCVLLTS 216
	TIC IOAEKONI COTOTUDICONE ANDENDETIMATE	E ETMERTOGRATIKA TOTAL 404
022291053.1 GIMAP4 chromosome 7	ILG.LQAFKSNLSGISITRTCSQKFANRFNRKIIVVDTPGIFDT	EETNEKIQQEIHKCIGITS 191
022297635.1 GIMAP4 chromosome 8	ILG.IKKFKSELSGKSETKMCSQWSAIRFNKKVLVIDTPGVFDT ILG.FTKFSSKLSAISETSVCSLSIVCRFNKKIIIVDTPGICDT	DQTNEFTQEEISKCIGISS 100
022335699.1 GIMAP4 chromosome 5	LG.FIKESSKLSAISEISVCSLSIVCRENKKIIIVDTPGICDT	DKKKTNDVIQLEISKCICMTS 101
022310198.1 GIMAP4 chromosome 9	ILK.TINFETSVLAGSCTQICTLREGVIFDKKVVLIDTPGIFDT	KESNDEIQQEILRCIQLSS 197
022296314 1 GTMAP4 chromosome 8	LKRENSRISGSSTURTOSONSAVREKRKTVTVATPOTENT	K OTNEEVON <mark>ETYKCIGITS</mark> 88

022303233.1 GIMAP4 chromosome 9	PGFHTIVLVVSADERVTKDDVKMVEKLDDFLG.HKGFGYMTLAVTKMEDDGYEMLDDMIKKNKA	I 153
022303234.1 GIMAP4 chromosome 9	PGFHTIVLVVSADERVTKDDVKMVEKLDDFLG.HKGFGYMILAVTKMEDDGYEMLDDMIKKNKA	I 153
022310523.1 GIMAP4 chromosome 9	PGFHAIVLVMSADERVTPDDVKMVETLDYVLG.KKGFGYMMLAVTKLDDDDYKTLDKMIKDAEA	I 154
022332185.1 GIMAP4 chromosome 4	PGFHAIVLVLSAAERITKEDMAMLKKLDGLLG.ESAYKYMILMITKLEDD.ETVLHEMMTEAPQ	I 187
022332187.1 GIMAP4 chromosome 4	PGFHAIVLVLSAAERITKEDMAMLKKLDGLLG.ESAYKYMILMITKLEDD.ETVLHEMMTEAPQ	I 174
	PGFRAIVLVLOAAERITAEDRAMLKALDGLLG. BGAYKUMT. ALEDD. ETVLHEMMI	1 174
022332188.1 GIMAP4 chromosome 4	PGFHAIVLVLSAAERITKEDMAMLKKLDGLLG.ESAYKYMILMITKLEDD.ETVLHEMMTEAPQ	
022332605.1 GIMAP4 chromosome 4	PGFHAIVLVLSAAERITKEDMAMLKKLDGLLG.ESAYKYMILMITKLEDD.ETVLHEMMTEAPQ	I 174
022332606.1 GIMAP4 chromosome 4	PGFHAIVLVLSAAERITKEDMAMLKKLDGLLG.ESAYKYMILMITKLEDD.ETVLHEMMTEAPQ	I 174
022332607.1 GIMAP4 chromosome 4	PGFHAIVLVLSAAERITKEDMAMLKKLDGLLG.ESAYKYMILMITKLEDD.ETVLHEMMTEAPQ	I 174
022332190.1 GIMAP4 chromosome 4	PGFHALVLVLSAAERLSQEDIDMLDKLNKLLG.EKAYKYMILVVTKLEND.ERILTDMIASAPE	V 170
022332191.1 GIMAP4 chromosome 4	PGFHALVLVLSAAERLSQEDIDMLDKLNKLLG.EKAYKYMILVVTKLEND.ERILTDMIASAPE	V 170
022332600.1 GIMAP4 chromosome 4	PGFHALVLVLSAAERLSKEDIEMLDKLDKLLG.EKAYKYMILVVTKLEND.ESILTDMIASSPE	
022332601.1 GIMAP4 chromosome 4	PGFHALVLVLSAAERLSKEDIEMLDKLDKLLG.EKAYKYMILVVTKLEND.ESILTDMIASSPE	V 183
	PGFHALVLVLSAAERLSKEDIEMLDKLDKLLG.EKAYKYMILVVTKLEND.ESILTDMIASSPE	
022332602.1 GIMAP4 chromosome 4	PGFRALVLVLOAAERLOAEDIEMEDREDREEG. BARIKHMILVVI REEND. ESILIDMIA	V 103
022287294.1 GIMAP4 chromosome 6	PGIHAILLVVK.AGRFTDEDQHTVDLFMKVFG.DDLKKYLIVVFADKEQLECNDMTVTSYIRTMNKSSN	L 161
022287295.1 GIMAP4 chromosome 6	PGIHAILLVVK.AGRFTDEDQHTVDLFMKVFG.DDLKKYLIVVFADKEQLECNDMTVTSYIRTMNKSSN	L 161
022292452.1 GIMAP4 chromosome 7	PGTHAITLVVQ.VGRFTEEEQKTVDFFMAVFG.EELQKYLIVVFTDKDKLEKSNSTVEQYVQTYPKSTK	F 199
022292453.1 GIMAP4 chromosome 7	PGIHAIILVVQ.VGRFTEEEQKTVEFFMAVFG.EELKKYLIVVFTGKDKLEKNNLTVEQYVQTYPKSTI	F 199
022291927.1 GIMAP4 chromosome 7	PGIHAIILVVR.VGRFTEEDQKTVDYFMTVFG.EEVKNYLIVVFTDKEKLVKKTVEEYVQTYPKSSN	L 184
022295273.1 GIMAP4 chromosome 7	PGIHAIILVVQ.VGRFTEEEQKTVDFFMKVFG.EDLKDYLIVVFTHKDRLEDENITVDEFVQTMDKSSN	L 203
022295274.1 GIMAP4 chromosome 7	PGIHAIILVVQ.VGRFTEEEQKTVDFFMKVFG.EDLKDYLIVVFTHKDRLEDENITVDEFVQTMDKSSN	L 203
022295275.1 GIMAP4 chromosome 7	PGIHAIILVVQ.VGRFTEEEQKTVDFLMKVFG.EDLKDYLVVVFTNKDRLEDENITVDDFVQTMNKSSN	L 203
022295276.1 GIMAP4 chromosome 7	PGIHAIILVQ.VGRFTEEEQKTVDFLMKVFG.EDLKDYLVVVFTNKDRLEDENITVDDFVQTMNKSSN	L 203
022295270.1 GIMAP4 Chromosome 7	PGIHAIILVQ.VGRFTEEEQKTVDFLMKVFG.EDLKDYLVVVFTNKDRLEDENITVDDFVQTMNKSSN	L 203
	PGINALILLVQ. VGRFIEEEQRIVDFLMXVFG.EDLKDILVVVFTNKDRLEDENITVDDFVQTMN	203
022295278.1 GIMAP4 chromosome 7	PGTHAIILVVQ.VGRFTEEEQKTVDFLMKVFG.EDLKDYLVVVFTNKDRLEDENITVDDFVQTMNKSSN	L 203
022295279.1 GIMAP4 chromosome 7	PGTHAIILVVQ.VGRFTEEEQKTVDFLMKVFG.EDLKDYLVVVFTNKDRLEDENITVDDFVQTMNKSSN	L 203
022295280.1 GIMAP4 chromosome 7	PGTHAIILVVQ.VGRFTEEEQKTVDFLMKVFG.EDLKDYLVVVFTNKDRLEDENITVDDFVQTMNKSSN	L 203
022295286.1 GIMAP4 chromosome 7	PGVHAIILVVQ.VGRFTEEEQKTVDFFMNVFG.EDLKDYLIVVFTHKDRSEDENKTVDEFVQTMDKSSN	L 196
022295287.1 GIMAP4 chromosome 7	PGVHA <mark>IILV</mark> VQ.VGRFTEEEQKTVDFFMNVFG.EDLKDYL <mark>IVVFTH</mark> KDR <u>S</u> EDENKTVDEFVQTMDKSSN	L 196
022295281.1 GIMAP4 chromosome 7	PGTHATILVVQ.VGRFTEEEQKTVDFFMKVFG.EDLKDYLVVVFTHKDRLEDENITVDDFVQTMDKSSN	L 193
022295282.1 GIMAP4 chromosome 7	PGIHAIILVVQ.VGRFTEEEQKTVDFFMKVFG.EDLKDFLVVVFTHKDRLEDENMTVDDFVQTMDESSN	L 193
022294703.1 GIMAP4 chromosome 7	PGVHAIIFMVE.IGRFTKEDEKNMDFFMKVFG.EQLKNHLTVVFSHKNKLETKNKTVDDYVKTLDASTN	L 183
022294704.1 GIMAP4 chromosome 7	PGVHAIIFMVE.IGRFTKEDEKNMDFFMKVFG.EQLKNHLIVVFSHKNKLETKNKTVDDYVKTLDASTN	L 183
022294705.1 GIMAP4 chromosome 7	PGVHAIIFMVE.IGRFTKEDEKNMDFFMKVFG.EQLKNHLIVVFSHKNKLETKNKTVDDYVKTLDASTN	L 183
022294708.1 GIMAP4 chromosome 7	PGVHAIIFMVE.IGRFTKEDEKNMDFFMKVFG.EQLKNHLIVVFSHKNKLETKNKTVDDYVKTLDASTN	L 183
022295072.1 LOW QUALITY GIMAP4 chromosome 7	PGIHAIILVVE.IGRFTEDDQKTVDCFMKVFG.EDLKNYLIVVFTHKNPLEEENMTVGDYVKTLENSSN	L 157
022287296.1 GIMAP7 chromosome 6	PGIQAIVLVIQ.AERFTEEDEKTFKFFKTLFG.DNLKDYLIVVFTHICRLEDQHMSIDQFVETIDKSSN	L 161
022301435.1 GIMAP7 chromosome 8	PGPHAILLIIG.IGRFTKEEKDTVELLQRAFG.PDMLSYLVVVFTRKDDLDRGSKSVNQILTNAPSS	
022301436.1 GIMAP7 chromosome 8	PGPHAILLIIG.IGRFTKEEKDTVELLQRAFG.PDMLSYLVVVFTRKDDLDRGSKSVNQILTNAPSS	
022302475.1 GIMAP7 chromosome 8	PGPHAILLVIG.IGRFTKEEKDTVELLQRAFG.PDMLSYLVVVFTRKDDLDRGSKSVDQILANAPSS	L 225
022302477.1 GIMAP7 chromosome 8	PGPHAILLVIG.IGRFTKEEKDTVELLQRAFG.PDMLSYLVVVFTRKDDLDRGSKSVDQILANAPSS	
022299725.1 GIMAP4 chromosome 8	PGPHAILLTVG.IGRFTQEENETVLLLRKMFG.EDMMKYLTVVFTRKDDLDRGNKSIHQIVRDAPRT PGPHAFILVLSISNRFTEEEQQTIEQFVNQFG.NDVYKYFIVLFTRKEDLDRDNVSLVEHIRKSPVE	L 269
022304158.1 GIMAP7 chromosome 9		
022304950.1 GIMAP7 chromosome 9	PGPHAFIMVLSVGSDFTDEEKQVIDNFKKQFG.ESIYSYFIVLFTRRDDLDRENQSLDEYIKSSPPR	
022299405.1 GIMAP7 chromosome 8	PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 295
022299409.1 GIMAP7 chromosome 8	PGPHAFILILELDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 293
022299416.1 GIMAP7 chromosome 8	PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 282
022299418.1 GIMAP7 chromosome 8	PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 281
022299408.1 GIMAP7 chromosome 8	PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 293
022299407.1 GIMAP7 chromosome 8	PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 294
022299410.1 GIMAP7 chromosome 8	PGPHAFTLILRLDARFTDEEERSWQHFVDNFG.QNAYKYFTVLFTRKDELIANKITLSDHIQKTPIE	L 292
022299411.1 GIMAP7 chromosome 8	PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 284
022299412.1 GIMAP7 chromosome 8	PGPHAFILILIRDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQK	L 284
022299413.1 GIMAP7 chromosome 8	PCPHAETLILBIDARETDEEERSVOHEVDNEG ONAYKYETVIETRKDELTANKITISDHIOK TPIE	284
022299414.1 GIMAP7 chromosome 8	PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE PGPHAFILILRLDARFTDEEERSVQHFVDNFG.QNAYKYFIVLFTRKDELIANKITLSDHIQKTPIE	L 284
022299415.1 GIMAP7 chromosome 8	PGPHAFTI II RIDARFTDEEFRSWOHEVDNEG ONAYKVET WIETRKDEI TANKITI SOHTOK TOTE	L 283
022291053.1 GIMAP4 chromosome 7	DCPHAFTMWISTANRETEEFORTWHEVEHEC ENTVKVERWIETBODEFEDUNTNI UDUTDD CDDN	L 258
	PGPHAFIMVISIANRFTEEEQRTVDHFVRHFG.ENIYKYFFVLFTRQDELERHNINLHDHIRDSPPN PGPHAFIIVINIANRFTEEDMRTVKHFEKYFG.EEFYRYLIVLFTRKDDLDKSGKGLADYIENSPND	L 167
022297635.1 GIMAP4 chromosome 8	PGPHAFILVINIANRFIEEDMRIVKHEEKYFG.EELYRYLLVLFIRKDDLDKSGKGLADYIENSPND PGPHAFILVISITSRFTDEDKDTVKHFEKYFG.EELYRYLLVVFTGKDQLEARNMSLEEYIQNSPAE	101
022335699.1 GIMAP4 chromosome 5	POPULAR LEVISIT SWITTING IN TARGET RECLIRED LEVEL TO THE CONTROLLED TO THE CONTROLLE	L 168
022310198.1 GIMAP4 chromosome 9	PGPHAFIFVLNIATRFTEEERKSIQHFIKYFG.EDIYRYIIVLFTRKNDLDRHNLSLEKYIEKSDEN	L 264
022296314 1 GTMAP4 chromosome 8	PERPETATE VILSEA ARE TO FEES I MINHER VERGE FOR LYKYFT VILETERKEDITORKKISIM DY INNN SPPS	156

022303233.1 GIMAP4 chromosome 9	NDLDTKCQSRRVILGNKADGTPEKCIQRFDEELEKLVQKNRM	IIGEEYFRHKYYEKASK	ILEKDKEDYMKK 223
022303234.1 GIMAP4 chromosome 9	NDLDTKCQSRRVILGNKADGTPEKCIQRFDEELEKLVQKNRM	IIGEEYFRHKYYEKASK	ILEKDKEDYMKK 223
022310523.1 GIMAP4 chromosome 9	KKLDIKCQSRRVILGDNKREIPEICIKRFDEELEKLVQKNRL	NGEEYFRHKYYEKASK	ILEKDKEDYLKK 224
022332185.1 GIMAP4 chromosome 4	VELNVKCRSRRVIFGNDATKIPDACVQKFDKMLTNLIKENAN	OGSEYYBHKYYDEATK	ILEKDKSDYLKE 257
022332187.1 GIMAP4 chromosome 4	VELNVKCRSRRVIFGNDATKIPDACVQKFDKMLTNLIKENAN	IOGSEVYBHKYYDEATK	ILEKDKSDYLKE 244
022332188.1 GIMAP4 chromosome 4	VELNVKCRSRRVIFGNDATKIPDACVQKFDKMLTNLIKENAN		
022332605.1 GIMAP4 chromosome 4	VELNVKCRSRRVIFGNDATKIPDACVQKFDKMLTNLIKENAN		
022332606.1 GIMAP4 chromosome 4	VELNVKCRSRRVIFGNDATKIPDACVQKFDKMLTNLIKENAN	OCSEVVRHKYVDEATK	ILEKDKSDYLKE 244
022332607.1 GIMAP4 chromosome 4	VELNVKCRSRRVIFGNDATKIPDACVQKFDKMLTNLIKENAN	IOGSEYYBHKYYDEATK	ILEKDKSDYLKE 244
022332190.1 GIMAP4 chromosome 4	SALNVKCEERRVIFGDDKKNIPNECLEKFDEVLSELIKENTK	RHSTEVBHKYYDKATC	ILELDKKDYMKK 240
022332191.1 GIMAP4 chromosome 4	SALNVKCEERRVIFGDDKKNIPNECLEKFDEVLSELIKENTK		
022332600.1 GIMAP4 chromosome 4	SALNVKCEERRVIFGDDKKNIPNECLEKFDEVLSELIKENTK	RHSTFYRHKYYDKATC	ILELDKKDYMKK 253
022332601.1 GIMAP4 chromosome 4	SALNVKCEERRVIFGDDKKNIPNECLEKFDEVLSELIKENTK		
022332602.1 GIMAP4 chromosome 4	SALNVKCEERRVIFGDDKKNIPNECLEKFDEVLSELIKENTK		
022287294.1 GIMAP4 chromosome 6	YKLIEEINRRYVAVGVRDENEKEILEILSMIDAIGGP	HGDKYYSNEYFKETEK	CMEEMEKK 222
022287295.1 GIMAP4 chromosome 6	YKLIEEINRRYVAVGVRDENEKEILEILSMIDAIGGP		
022292452.1 GIMAP4 chromosome 7	RKLIDTNN.RYIAMGYQGNVQDRDDEVKQILSMVEEISGR	DGSNYYSNKVFQNVEK	LLEEEDRRQSEE 266
022292453.1 GIMAP4 chromosome 7	RKLVDTNN.GYIAMGYQGNFKDRDDEVKQLLSMVEEISGK	DGSNYYSNKIFONVEK	LLQEEDRKQREK 266
022291927.1 GIMAP4 chromosome 7	RKLVDANN.RYMAMGYTGNVKDRDDEVKQILSMVEEISGK	DGNNYYSNKIFQEVEK	ILKEEERKKTEE 251
022295273.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKMEERTMEVKQILSMTEEIAGE	DGKNYYSNEVFRRVQE	DLEEIERKRIKK 271
022295274.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKMEERTMEVKQILSMTEEIAGE		
022295275.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKIEERTMEVKQILSMIEEIAGK		
022295276.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKIEERTMEVKQILSMIEEIAGK		
022295277.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKIEERTMEVKQILSMIEEIAGK	DGKNYYSNEVFQRVQK	VMEENERK 267
022295278.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKIEERTMEVKQILSMIEEIAGK	DGKNYYSNEVFQRVQK	VMEENERK 267
022295279.1 GIMAP4 chromosome 7		DGKNYYSNEVFQRVQK	
022295280.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKIEERTMEVKQILSMIEEIAGK		
022295286.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKMEERTMEVKQILSIIEEIEGK		
022295287.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKMEERTMEVKQILSIIEEIEGK		
022295281.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGSMEKRTWEVKEILSMIKEIAGK	IDWKNYYS <mark>N</mark> EIFERVQK	VMEENERKRKKE 261
022295282.1 GIMAP4 chromosome 7	RRLIDASKGRYTAIGYKGKIEERTMEVKQILSMIEGIAGK	D <mark>G</mark> KN <mark>YY</mark> SNELFRKVQG	VMEENERKRKKE 261
022294703.1 GIMAP4 chromosome 7	RNLIDLCKNRYTAIGDGWEGEDRTLEVNKILSMVEDIAGK		
022294704.1 GIMAP4 chromosome 7	RNLIDLCKNRYTAIGDGWEGEDRTLEVNKILSMVEDIAGK	ID <mark>G</mark> KN <mark>YY</mark> SSEYFQYVKS	VIEENEGKCEVE 251
022294705.1 GIMAP4 chromosome 7	RNLIDLCKNRYTAIGDGWEGEDRTLEVNKILSMVEDIAGK	ID <mark>G</mark> KN <mark>YY</mark> SSEYFQYVKS	VIEENEGKCEVE 251
022294708.1 GIMAP4 chromosome 7	RNLIDLCKNRYTAIGDGWEGEDRTLEVNKILSMVEDIAGK	ID <mark>G</mark> KN <mark>YY</mark> SSEYFQYVKS	VIEENEGKCEVE 251
022295072.1 LOW QUALITY GIMAP4 chromosome 7	RKLINGCKNRYTAIGCKGNKEDRTLDDKQKLSMVEDIAGK	ID <mark>G</mark> KN <mark>YY</mark> S <mark>N</mark> EDFQ	SERKRKEE 217
022287296.1 GIMAP7 chromosome 6	QKL <mark>ICKSNKRYIA</mark> LGNTASEEEVQNLLGMIEEIKEV	NGGKYYSNELFKRAQE	VNSNS <mark>I</mark> GSR 222
022301435.1 GIMAP7 chromosome 8	QDFIASCGNRFFAINNAEE.NIDTVDKQVQDLLRLITEMVHK	NGKKYYSSSIFEQTET	VIKERERELRPN 294
022301436.1 GIMAP7 chromosome 8	QDFIASCGNRFFAINNAEE.NIDTVDKQVQDLLRLITEMVHK		
022302475.1 GIMAP7 chromosome 8		NGNK <mark>YY</mark> SSSIFDQT <mark>E</mark> R	
022302477.1 GIMAP7 chromosome 8	QDVIASCGNRFFAINNAEE.NIDNVDKQVQDLLRLITEMVHE		
022299725.1 GIMAP4 chromosome 8		NGGD <mark>YY</mark> TSPIFDET <mark>E</mark> L	
022304158.1 GIMAP7 chromosome 9	INF <mark>IEKCGKRAVA</mark> FD <mark>N</mark> TLKDEASERQVKELLDLISQNVAK		
022304950.1 GIMAP7 chromosome 9	VKFIEKCGARVVAFDNTLNGKASDDQVQDLLELICKNIQN		
022299405.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGE <mark>YYTN</mark> RM <mark>Y</mark> IEAEK	
022299409.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NG <mark>GEYYTN</mark> RM <mark>Y</mark> IEAEK	DMRKR <mark>E</mark> EER 358
022299416.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKR <mark>E</mark> EER 347
022299418.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKR <mark>E</mark> EER 346
022299408.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA		DMRKR <mark>E</mark> EER 358
022299407.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKR <mark>E</mark> EER 359
022299410.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKREEER 357
022299411.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKREEER 349
022299412.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKREEER 349
022299413.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKREEER 349
022299414.1 GIMAP7 chromosome 8		NGGEYYTNRMYIEAEK	DMRKREEER 349
022299415.1 GIMAP7 chromosome 8	QTVIKKCGGRVIAFDNRCTEKEQSKQVQELLNTVLENVKA	NGGEYYTNRMYIEAEK	DMRKR <mark>E</mark> EER 348
022291053.1 GIMAP4 chromosome 7		NGYDYYTDEMYQEAERKI	
022297635.1 GIMAP4 chromosome 8	KDLIKKCGDRVFAINNHLSGSKQDNEVNNLLNLISENMVK	NMKAYYTNDLYEKAER	EILKEEMKR 232
022335699.1 GIMAP4 chromosome 5	QSLTKKCEGRVFALNNMIKGSKQINEVKILLNLISENVAN	NFNECYTNDAFKRAEE	EIQKQIQKE 233
022310198.1 GIMAP4 chromosome 9	KSFIAKCGGGAFAIENTLEGGKMDEQVQELLNRISQNVKN	NRGECYTNDMYKKAER	EINKIESMK 329
022296314 1 GTMAP4 chromosome 8	OTEVOKCCMBVIAFDNNI FCVEODEOVEKIIDLILENVO F	MCCCFFYKMFILVVFAFM	KIOTV <mark>E</mark> EKKVON 224

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260
022303233.1 GIMAP4 chromosome 9
022303234.1 GIMAP4 chromosome 9
                             260
                             ..... HPDVTSEAAMETVREIAAVGESDRDEELRALVDRSLC..................
022310523.1 GIMAP4 chromosome 9
                                                                                         261
022332185.1 GIMAP4 chromosome 4
                             .....YPDTSESVALEIVRNRATEGLSPRDRELRSLNDPN.........
                                                                                         292
                             ......YPDTSESVALEIVRNRATEGLSPRDRELRSLNDPN........
                                                                                         279
022332187.1 GIMAP4 chromosome 4
                             .....YPDTSESVALEIVRNRATEGLSPRDRELRSLNDPN.........
                                                                                         279
022332188.1 GIMAP4 chromosome 4
                             ..... YPDTSESVALEIVRNRATEGLSPRDRELRSLNDPN................
022332605.1 GIMAP4 chromosome 4
                             .....YPDTSESVALEIVRNRATEGLSPRDRELRSLNDPN........
                                                                                         279
022332606.1 GIMAP4 chromosome 4
022332607.1 GIMAP4 chromosome 4
                             022332190.1 GIMAP4 chromosome 4
                             .....NPGVSHSKAMEIVRNEAAVGRSPRDSELRTIADG...........
                                                                                         274
022332191.1 GIMAP4 chromosome 4
                             .....NPGVSHSKAMEIVRNEAAVGRSPRDSELRTIADG...........
022332600.1 GIMAP4 chromosome 4
                             ..... HPGVSHSEAMEIVRNEAAVGRSPRDSELRTIADG.................
                             022332601.1 GIMAP4 chromosome 4
                                                                                         287
                             022332602.1 GIMAP4 chromosome 4
                                                                                         287
022287294.1 GIMAP4 chromosome 6
                             .....QMRESRNQIRDTYNDDVRDSTRRRIADE...............
                                                                                         250
                             .....QMRESRNQIRDTYNDDVRDSTRRRIADE...........
022287295.1 GIMAP4 chromosome 6
                                                                                         250
                             T.....KEKRKRRLYTDEEMMNFVDHARAKTREEVFN..ENFRL.....
022292452.1 GIMAP4 chromosome
                             022292453.1 GIMAP4 chromosome 7
                                                                                         297
022291927.1 GIMAP4 chromosome 7
                             I......KKKFKEKRFSDEEMIKIVIEARTNIREEVLN..EDFRL...........
                                                                                         288
022295273.1 GIMAP4 chromosome 7
                             I......NYQ.....EEENREKKYTLSEINALLQSARSESRVHIVN..NNYQ.........
                                                                                         307
                             I.........EEENREKKYTLSEINALLQSARSESRVHIVN..NNYQ............
022295274.1 GIMAP4 chromosome 7
                                                                                         307
                             .....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN......KEKNREKMYTES
022295275.1 GIMAP4 chromosome 7
                             ......KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN.............
022295276.1 GIMAP4 chromosome 7
                                                                                         302
022295277.1 GIMAP4 chromosome 7
                             .....KEKNREKMYTESEVNLLLHSARTQSRVDIVN..NNYN..............
                                                                                         302
                             022295278.1 GIMAP4 chromosome 7
                                                                                         302
022295279.1 GIMAP4 chromosome 7
                             .....KEKNREKMYTESEVNLLLHSARTOSRVDIVN..NNYN..............
                                                                                         302
022295280.1 GIMAP4 chromosome 7
                             ......KEKNREKMYTESEVNLLLHSARTOSRVDIVN..NNYN..............
                                                                                         302
022295286.1 GIMAP4 chromosome 7
                             274
022295287.1 GIMAP4 chromosome 7
                             274
                             T.....EVKNREKKYTESEVNALLQSARSDTRVNIVN..RNTQ...........
022295281.1 GIMAP4 chromosome 7
022295282.1 GIMAP4 chromosome 7
                             V.......EEKKREKMYTESEVNLLLHSVRTQSRVNIVN..NNYN...........
                                                                                         297
                             .....NDIKN......TTKHQREKYTMEDIEDVLDIMKKQTIE.....NDIKN......
                                                                                         283
022294703.1 GIMAP4 chromosome 7
022294704.1 GIMAP4 chromosome 7
                             ......NDIKN.....TTKHOREKYTMEDIEDVLDIMKKOTIE.....NDIKN.......
                                                                                         283
                             ......NDIKN......TTKHQREKYTMEDIEDVLDIMKKQTIE.....NDIKN......
022294705.1 GIMAP4 chromosome 7
                                                                                         283
022294708.1 GIMAP4 chromosome 7
                             .....NDIKN.....TTKHOREKYTMEDIEDVLDIMKKOTIE.....NDIKN.......
022295072.1 LOW QUALITY GIMAP4 chromosome 7
                             .....IMKNO..SYTKEBIETLLDNIRKOTREEIVKEINOTKS......
                                                                                         253
                             022287296.1 GIMAP7 chromosome 6
                                                                                         222
022301435.1 GIMAP7 chromosome 8
                             .....KSMAT.WRS......LKEREDALLEKLKILAFQR....KSMAT.WRS......
                                                                                         321
                             .....KEREDALLEKLKILAFQR....KSMAT.WRS.........
022301436.1 GIMAP7 chromosome 8
                                                                                         317
                             YEEKTNEDVKEMKRIISLEFEDKKSEFKERENALLEKLDRLELQRTQELKSMASNLRS.........
022302475.1 GIMAP7 chromosome 8
022302477.1 GIMAP7 chromosome 8
                             YEEKTNEDVKEMKRIISLEFEDKKSEFKERENALLEKLDRLELORTOELKSMASNLRS.........
                                                                                         303
                             YEVESKRRNTRKRROLSEIYOEKNNLYKOREKDLLEKLEALEKORFSETDTIITRLKO................
022299725.1 GIMAP4 chromosome 8
                                                                                         380
022304158.1 GIMAP7 chromosome 9
                             E.....TEEKRKEELKAIE RIEGKYSRISEIEKTKLMQVQN.......
                                                                                         373
                             E.....KIKLAKNAN......MEEVEMRERD.EERKQ......KIKLAKNAN.....
022304950.1 GIMAP7 chromosome 9
                             .....EELNKMK.....LQAAIQQQEKMFKERYQ......EELNKMK.....
022299405.1 GIMAP7 chromosome 8
                                                                                         384
022299409.1 GIMAP7 chromosome 8
                             .... EELNKMK.....LQAAIQQQEKMFKERYQ..... EELNKMK....
                                                                                         382
                             .....EELNKMK.....LQAAIQQQEKMFKERYQ......EELNKMK....
022299416.1 GIMAP7 chromosome 8
                                                                                         371
                             .....EELNKMK.....LQAAIQQQEKMFKERYQ......EELNKMK.....
022299418.1 GIMAP7 chromosome 8
                             .....EELNKMK.....LQAAIQQQEKMFKERYQ......EELNKMK.....
022299408.1 GIMAP7 chromosome 8
                                                                                         382
                             .....EELNKMK.......LOAAIOOQEKMFKERYQ......EELNKMK.....
                                                                                         383
022299407.1 GIMAP7 chromosome 8
022299410.1 GIMAP7 chromosome 8
                             .....EELNKMK.....LQAAIQQQEKMFKERYQ......EELNKMK.....
                                                                                         381
                             .....EELNKMK......LQAAIQQQEKMFKERYQ......EELNKMK.....
022299411.1 GIMAP7 chromosome 8
                                                                                         373
                             .....EELNKMK......LQAAIQQQEKMFKERYQ......EELNKMK.....
022299412.1 GIMAP7 chromosome 8
                             .....EELNKMK.....LQAAIQQQEKMFKERYQ......EELNKMK.....
022299413.1 GIMAP7 chromosome 8
                                                                                         373
022299414.1 GIMAP7 chromosome 8
                             .....EELNKMK......LQAAIQQQEKMFKERYQ......EELNKMK.....
                                                                                         373
022299415.1 GIMAP7 chromosome 8
                             .....EELNKMK......LQAAIQQQEKMFKERYQ......EELNKMK.....
                                                                                         372
                             E.....QEIDKINSLTFELTELRKNQAEREYEVKNLMKV
022291053.1 GIMAP4 chromosome
                                                                                         384
                             ......KEQIQKELDRKVRELEE......KVRRENKG......
                                                                                         257
022297635.1 GIMAP4 chromosome 8
                             022335699.1 GIMAP4 chromosome 5
                                                                                         258
                             022310198.1 GIMAP4 chromosome 9
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KEKI EEEEKHGEBONDOK VEKVOGHI EVI NBKONNE

022206314 1 CTMAP4 chromosome 8

022303233.1 GIMAP4 chromosome 9 260 022303234.1 GIMAP4 chromosome 9 260 022332185.1 GIMAP4 chromosome 4 292 022332188.1 GIMAP4 chromosome 4 279 022332188.1 GIMAP4 chromosome 4 279 022332606.1 GIMAP4 chromosome 4 279 022332607.1 GIMAP4 chromosome 4 279 02233219.1 GIMAP4 chromosome 4 279 022332600.1 GIMAP4 chromosome 4 274 022332601.1 GIMAP4 chromosome 4 274 022332602.1 GIMAP4 chromosome 4 227 022332602.1 GIMAP4 chromosome 4 287 022332602.1 GIMAP4 chromosome 4 287 022387294.1 GIMAP4 chromosome 6 250 022295273.1 GIMAP4 chromosome 7 297 0222952771.1 GIMAP4 chromosome 7 307 0222952772.5 I GIMAP4 chromosome								
022303234.1 GIMAP4 chromosome 9 .260 022332185.1 GIMAP4 chromosome 4 .292 022332185.1 GIMAP4 chromosome 4 .292 022332183.1 GIMAP4 chromosome 4 .279 022332605.1 GIMAP4 chromosome 4 .279 022332607.1 GIMAP4 chromosome 4 .279 0223332607.1 GIMAP4 chromosome 4 .279 0223332190.1 GIMAP4 chromosome 4 .274 0223332600.1 GIMAP4 chromosome 4 .274 0223332601.1 GIMAP4 chromosome 4 .287 0223332602.1 GIMAP4 chromosome 4 .287 0223332601.1 GIMAP4 chromosome 6 .287 0223332602.1 GIMAP4 chromosome 6 .287 022237294.1 GIMAP4 chromosome 6 .250 022287294.1 GIMAP4 chromosome 7 .30 022292452.1 GIMAP4 chromosome 7 .23 0222919127.1 GIMAP4 chromosome 7 .28 022295273.1 GIMAP4 chromosome 7 .307 022295273.1 GIMAP4 chromosome 7 .307 022295273.1 GIMAP4 chromosome 7 .302 022295273.1 GIMAP4 chromosome 7 .302 022295273.1 GIMAP4 chromosome 7 .302 022295273.1 GIMAP4 chromosome 7		022303233.1	GIMAP4	chromosome	9			260
0223301853.1 GIMAP4 chromosome 4 292 022332187.1 GIMAP4 chromosome 4 279 022332188.1 GIMAP4 chromosome 4 279 022332606.1 GIMAP4 chromosome 4 279 022332606.1 GIMAP4 chromosome 4 279 022332607.1 GIMAP4 chromosome 4 279 02233219.1 GIMAP4 chromosome 4 274 02233219.1 GIMAP4 chromosome 4 274 02233219.1 GIMAP4 chromosome 4 287 02233260.1 GIMAP4 chromosome 6 287 02228729.1 GIMAP4 chromosome 6 250 02228729.1 GIMAP4 chromosome 7 297 022291927.1 GIMAP4 chromosome 7 297 022291927.1 GIMAP4 chromosome 7 288 022295273.1 GIMAP4 chromosome 7 307 022295275.1 GIMAP4 chromosome 7 302 022295277.1 GIMAP4 chromosome 7 302 022295278.1 GIMAP4 chromosome 7 302 022295278.1 GIMAP4 chromosome 7 302 022295282.1 GIMAP4 chromosome 7 222 <								260
022332185.1 GIMAP4 chromosome 4 279 022332187.1 GIMAP4 chromosome 4 279 022332188.1 GIMAP4 chromosome 4 279 022332606.1 GIMAP4 chromosome 4 279 022332607.1 GIMAP4 chromosome 4 279 022332190.1 GIMAP4 chromosome 4 274 022332191.1 GIMAP4 chromosome 4 274 022332600.1 GIMAP4 chromosome 4 287 022332601.1 GIMAP4 chromosome 4 287 022332601.1 GIMAP4 chromosome 4 287 022332602.1 GIMAP4 chromosome 6 287 022237294.1 GIMAP4 chromosome 6 250 022287294.1 GIMAP4 chromosome 7 303 022292452.1 GIMAP4 chromosome 7 303 022292453.1 GIMAP4 chromosome 7 297 022295273.1 GIMAP4 chromosome 7 302 022295273.1 GIMAP4 chromosome 7 302 022295276.1 GIMAP4 chromosome 7 302 022295277.1 GIMAP4 chromosome 7 302 022295277.1 GIMAP4 chromosome 7 302 0222952827.1 GIMAP4 chromosome 7 302 0222952828.1 GIMAP4 chromosome 7 302 0222952828.1 GIMAP4 chromosome 7 224								
022332187.1 GIMAP4 chromosome 4 279 022332605.1 GIMAP4 chromosome 4 279 022332605.1 GIMAP4 chromosome 4 279 022332607.1 GIMAP4 chromosome 4 279 022332190.1 GIMAP4 chromosome 4 274 022332191.1 GIMAP4 chromosome 4 274 022332600.1 GIMAP4 chromosome 4 287 022332600.1 GIMAP4 chromosome 4 287 022332602.1 GIMAP4 chromosome 4 287 022332602.1 GIMAP4 chromosome 6 286 022287295.1 GIMAP4 chromosome 6 250 022287295.1 GIMAP4 chromosome 7 303 022291452.1 GIMAP4 chromosome 7 397 022291927.1 GIMAP4 chromosome 7 397 022295273.1 GIMAP4 chromosome 7 307 022295276.1 GIMAP4 chromosome 7 302 022295277.1 GIMAP4 chromosome 7 302 022295277.1 GIMAP4 chromosome 7 302 022295278.3 GIMAP4 chromosome 7 302 022295279.1 GIMAP4 chromosome 7 302 022295279.1 GIMAP4 chromosome 7 302 022295280.1 GIMAP4 chromosome 7 302 022295281.1 GIMAP4 chromosome 7 297 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>							•	
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		022335699.1	GIMAP4	chromosome	5			258
		022310198.1	GIMAP4	chromosome	9			354
	_	022296314 1	CTMAP4	chromosome	8			261

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