

Annotation Cluster 1 Enrichment Score: 7.684808264869279

Category	Term	Count	%	Value	Genes	List	Total	Pop	Hits	Pop	Total	Fold	Enrichment	Bonferroni	Benjamini	FDR	
GOTERM	NT	GSTK1		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	46
UP_SEQ_FE		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	48302	2269	12
INTERPRO	N-terminal			GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	46
INTERPRO	Mu class"			GSTM2		GSTM1		GSTM7		GSTM6		GSTM5	4672	2075	8386	7950	3116
INTERPRO	C-terminal			GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	46
GOTERM	E	GSTM2		GSTM1		GSTM7		GSTM6		GSTM5	4872	2011	9359	2678	5713	95E-103	95E-103
UP_SEQ_FE		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	4840	2269	92
KEGG_PATH		GSTK1		GSTM2		GSTM1		GSTO2		GSTO1		DHDH		GSTM7		GSTM6	
GOTERM	E	GSTK1		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	48
INTERPRO	C-terminal			GSTM2		GSTM1		GSTO1		GSTM7		GSTM6		GSTM5	4630	2075	810
GOTERM	E	GSTM2		GSTM1		GSTO1		GSTM7		GSTM6		GSTM5	4830	2011	997	8006	94442
KEGG_PATH		GSTK1		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	33
KEGG_PATH		GSTK1		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	33
KEGG_PATH		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		BBC3		GSTM5	33
KEGG_PATH		GSTK1		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	33
GOTERM	NT	GSTM2		GSTM1		GSTM7		GSTM6		GSTM5	4619	1860	0127	6887	8728	8.07E-084	0.01E-084
GOTERM	E	GSTM1		GSTM7		GSTM6		GSTM5	4882	2011	9261	9661	4586	1.14E-071	1.54E-071	1.41E-0	
KEGG_PATH		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	3392	2901	123.7
KEGG_PATH		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	3314	4790	1114
KEGG_PATH		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	3317	4901	1112
GOTERM	C	GSTM2		GSTM1		GSTM7		GSTM6		GSTM5	4610	1210	9527	2.2427	8952	2.63E-046	0.51E-046
GOTERM	E	GSTM1		GSTM7		GSTM6	4815	2011	9111	7722	2222	0.0018	0010	927.00E-041	1.84E-04		
KEGG_PATH		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	3322	2901	119.8
KEGG_PATH		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		GSTM5	3322	2901	119.7
KEGG_PATH		GSTK1		GSTM2		GSTM1		GSTO2		SHMT2		GSTO1		SHMT1		DHDH	
KEGG_PATH		BCR		GSTM2		GSTM1		GSTO2		GSTO1		GSTM7		GSTM6		BBC3	
GOTERM	E	GSTM1		GSTM6	4882	2011	9157	1796	8750	0.0488	7077	70.0033	4010	90.0030	6341	3	
GOTERM	NT	GSTK1		GSTM2		GSTM1		GSTO2		SHMT2		GSTO1		SHMT1		B3GLCT	
GOTERM	NT	BCR		GSTM2		GSTM1		GSTM7		GSTM6		GSTM5	4648	818	8600	5.8000	71276
GOTERM	NT	GSTM2		GSTM1		SHMT2		SHMT1		GSTM7		GSTM6		GSTM5	4683	3318	6003
GOTERM	E	GSTM1		GSTM6	4841	1201	1930	669	2073	320.7533	7208	10.0508	8381	160.0466	685	589	
UP_KW_M		GSTK1		GSTM2		GSTM1		GSTO2		SHMT2		GSTO1		SHMT1		B3GLCT	
GOTERM	C	GSTM2		GSTM1		SHMT2		GSTO1		SHMT1		BCR		DHFR		BBX	

**?**

Annotation Cluster 2 Enrichment Score: 4.137344928209443

Category	Term	Count	%	P-Value	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
INTERPRO	voltage de	Kv	714	2.81e-11	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	KCNC4	4.61e-11
UP_SEQ_FE	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4843	22269	75.5247093	8.61e-11		
UP_SEQ_FE	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4851	22269	63.6776960	8.11e-11		
UP_SEQ_FE	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4852	22269	62.4531252	7.19e-11		
INTERPRO	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4651	20758	61.9377664	1.11e-10		
UP_SEQ_FE	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4854	22269	60.1400463	7.27e-11		
UP_SEQ_FE	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4854	22269	60.1400463	7.27e-11		
UP_SEQ_FE	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4854	22269	60.1400463	7.27e-11		
INTERPRO	four helix l	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	4661	20758	58.11e-10		

UP_SEQ_FE KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	48632226951.548611117.
GOTERM_N KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	46641860044.225543480.
GOTERM_C KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	46732109543.974091720.
INTERPRO voltage de Kv3"48.16:	KCNC2	KCNC3	KCNC4"	46420758451.26086963.23E-064.04E		
GOTERM_N KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	46821860034.517497354.
UP_KW_M KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	38731203730.374549392.
INTERPRO KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	461072075829.52173913!
GOTERM_C COL13A1	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4 STRN"4628
UP_KW_BI KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	251181083225.70305085!
SMARTSMC KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	162201061721.11335227!
GOTERM_E KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	481232011923.85382791!
GOTERM_E KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	481272011923.10252625!
GOTERM_E KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	481372011921.41621046!
GOTERM_N KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	461391860020.36284016!
GOTERM_E KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	481442011920.37514468!
UP_KW_LI KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	20135661817.157777780.
GOTERM_C KCND2	KCNC2	KCNC3	KCNC4"	46392109558.793199550.55E-045.16E-054.08E-(		
GOTERM_N KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	461701860016.64961637!
UP_KW_M KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	381381203716.06769641!
INTERPRO KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	462232075814.16513947.
INTERPRO KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	462322075813.61562969!
INTERPRO voltage de Kv4"36.12:	KCND2	KCND3"	46320758451.26086960.001169510.88E-055.51!			
INTERPRO KCND2	KCND3"	46320758451.26086960.001169510.88E-055.51E-05				
INTERPRO voltage de Kv4	C-terminal	KCND2	KCND3"	46320758451.26086960.001169510.!		
GOTERM_N KCND2	KCND3"	46418600303.26086960.0036906484.11E-043.27E-04				
GOTERM_N KCNC2	KCNC3	KCNC4"	46301860053.913043480.0055279285.54E-044.41E-04			
UP_KW_M KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	OAI1"38345120377.:
UP_SEQ_FE KCNC1	KCNC2	KCND3	KCNC3	KCNC4"	482092226913.31877990.013965728	
GOTERM_C KCNC2	KCNC3	KCNC4"	46432109542.659251770.0115338510.0017173080.001358:			
UP_KW_CE KCND1	KCNC1	KCND2	KCNC2	KCND3	KCNC3	NEFL STRN
GOTERM_C KCND1	KCND2	KCND3	STRN	NEFM	NEFH"	46379210958.4699437880.
GOTERM_C KCND1	KCNC1	KCND2	KCNC2	KCND3	KCNC3	NEFL STRN
UP_KW_BI KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	OAI1"25625108325.!
GOTERM_C KCND1	KCNC1	KCND2	KCNC2	KCND3	KCNC4	STRN"46622210955.8!
GOTERM_C KCNC1	KCND2	KCNC2	KCND3	KCNC4	STRN	NEFH"46654210955.6
GOTERM_E KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	OAI1"48601201195.!
GOTERM_E KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4"	48453201190.476867182!
UP_KW_CE COL13A1	KCNC1	KCND2	KCNC2	KCNC3	STRN"	39511178810.2806462940.
GOTERM_C KCND2	KCNC3	KCNC4"	46832109522.100576220.0781775630.0060456450.004781!			
GOTERM_N KCNC2	KCNC4"	46171860071.355498720.0788914510.0053405260.004252641				
GOTERM_C KCNC2	KCNC3"	46202109588.788043480.0867895790.00605010.004785079				
GOTERM_C KCND1	KCND2	KCND3	STRN"	462132109510.764952030.1129277590.00748522		
UP_KW_CE KCND2	KCNC2	KCNC3"	391531788111.986592930.0723110110.0249674890.02496:			
GOTERM_C KCNC2	KCNC3	KCNC4"	461832109510.023758610.5369621930.0426254570.03371:			
UP_SEQ_FE KCNC2	KCNC4"	48632226922.09226190.7615183540.0722200770.065474246				
UP_SEQ_FE KCND1	COL13A1	KCNC1	KCND2	KCNC2	KCND3	KCNC3 KCNC4
GOTERM_C KCNC3	KCNC4"	46962109514.330842390.8624103240.0982851850.077734647				

GOTERM_C COL13A1	KCNC1	KCND2	KCNC2	KCNC3	STRN	"461021210953.1440829541
GOTERM_C KCNC2	KCND3	"461342109510.266872160.9755894340.1478505540.116936348				
GOTERM_C KCNC2	KCND3	NEFL	NEFM	"46599210953.8279378670.986427120.15617529		
UP_KW_DC KCND1	COL13A1	KCNC1	KCND2	KCNC2	KCND3	KCNC3 KCNC4
GOTERM_N KCNC2	KCND3	"46156186007.7759197320.9977068750.2110708590.168074944				
GOTERM_N NEFL	STRN	NEFM	NEFH	"46086186002.947141590.9999169890.281230203		
UP_KW_DC KCND1	COL13A1	KCNC1	KCND2	KCNC2	KCND3	KCNC3 KCNC4
UP_SEQ_FE COL13A1	KCNC2	KCND3	KCNC3	KCNC4	VOPP1	"481626222690.997270911
UP_KW_BII KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4	ORAI1"252021108321
GOTERM_C KCND2	KCNC3	KCNC4	"46056210952.796261930.9999999970.4191574170.3315154			
GOTERM_C KCND1	COL13A1	KCNC1	KCND2	SHMT2	KCNC2	KCND3 KCNC3
UP_SEQ_FE KCND1	COL13A1	KCNC1	KCNC2	KCNC3	KCNC4	B3GLCT ORAI1
UP_KW_CE KCNC1	KCND2	KCNC2	KCND3	KCNC3	ORAI3	ORAI1 AGTR2"39E
GOTERM_C COL13A1	KCNC1	KCND2	KCNC2	KCND3	KCNC3	KCNC4 B3GLCT
GOTERM_C KCNC2	KCND3	ORAI1	"461295210951.416484808110.798165138			
UP_KW_PT KCND1	COL13A1	KCNC1	KCNC2	KCNC3	KCNC4	B3GLCT NEFL
UP_KW_CE KCND1	COL13A1	KCNC1	KCND2	SHMT2	KCNC2	KCND3 KCNC3
GOTERM_C GSTM2	COL13A1	KCNC1	KCND2	KCNC2	KCND3	KCNC3 KCNC4
UP_SEQ_FE KCND1	KCNC1	KCNC2	KCND3	KCNC3	KCNC4	ORAI3 ORAI2
UP_KW_LIK KCND2	NEBL	KCND3	"20239766180.5521902381111			
GOTERM_N KCND2	NEBL	KCND3	"463633186000.445194414110.996053353			
UP_KW_LIK KCND2	NEBL	KCND3	"20383366180.3453169841111			

?

Annotation Cluster 3 Enrichment Score: 3.589760156895590

Category	Term	Count	%	P-Value	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
UP_SEQ_FE	PKIA	PKIG	"48322269463.93750.0023744752.38E-042.16E-04									
INTERPRO	PKIA	PKIG	"46320758451.26086960.001169510.88E-055.51E-05									
PIR_SUPER	PKIA	PKIG	"73184126311.06E-041.06E-041.06E-04									
GOTERM_E	PKIA	PKIG	"48920119139.71527780.0623012340.0035733560.003277338									
GOTERM_N	PKIA	PKIG	"46141860086.645962730.0537362980.0042476820.003382414									
UP_KW_M	PKIA	PKIG	"38151203763.352631580.0241891060.0048949880.004894988									
GOTERM_N	PKIA	PKIG	"46341860035.677749360.2815207720.0173743650.013835143									
GOTERM_E	PKIA	PKIG	"48782011916.120993590.992391790.1309051070.120060897									

?

Annotation Cluster 4 Enrichment Score: 3.55491107064773360

Category	Term	Count	%	P-Value	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_N	RDH11	RDH10	RDH14	RDH13	"461418600144.40993793.17E-067.94E-070.32E-							
UP_KW_LIK	RDH12	RDH11	RDH10	DHDH	RDH14	RDH13	"20180661812.868333330					
INTERPRO	RDH11	RDH10	RDH14	RDH13	"46052075834.712374580.0010062720.88E-055.!							
GOTERM_N	GSTK1	RDH12	GSTO2	RDH11	GSTO1	RDH10	DHDH	RDH14				
GOTERM_E	RDH11	RDH10	RDH14	"48372011945.313063060.0292433140.0024731770.002268								
UP_KW_M	RDH12	GSTO2	RDH11	GSTO1	RDH10	DHDH	RDH14	RDH13"381				
UP_KW_BII	GSTM2	GSTM1	RDH12	RDH11	RDH10	RDH14	RDH13	"252041108324.				
GOTERM_E	RDH10	RDH13	"48162011978.589843750.1912319930.0092250670.00846086									
GOTERM_E	GSTM2	GSTM1	RDH12	RDH11	RDH10	RDH14	RDH13	"48726201194.				
GOTERM_N	RDH11	RDH10	"46301860040.434782610.2272924010.0143081660.01139354									
KEGG_PATH	RDH11	RDH10	RDH13	"3397901111.260231180.2131716190.0149482040.0116595								

GOTERM\_E RDH11 RDH10"48154201198.1651785710.9999999730.3147726570.288696815  
UP\_SEQ\_FE RDH11 RDH10 RDH14 RDH13"48859222692.7004511060.9999999990.6939326

Annotation Cluster 5Enrichment Score: 3.138101258047816

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
INTERPRO	ORAI2				OAI1"463207584	51.26086960	0.001169510	0.88E-05	0.51E-05			
GOTERM_E	OAI2				OAI1"489201191	39.71527780	0.0623012340	0.0035733560	0.003277338			
GOTERM_M	OAI2				OAI1"4614186008	6.645962730	0.0537362980	0.0042476820	0.003382414			
KEGG_PATH	OAI2				OAI1"3324090113	4.4132575760	0.9999920180	0.5506447860	0.429502933			

Annotation Cluster 6Enrichment Score: 3.112641811152379

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_E	SHMT2				SHMT1"484201193	14.3593750	0.0107423680	0.82E-04	0.01E-04			
GOTERM_E	SHMT2				SHMT1"487201191	79.63392860	0.0369350240	0.0028947920	0.002654987			
KEGG_PATH	RDH12				SHMT2 RDH11 SHMT1 RDH13"3315290110	0.778708130	0.008873985					
GOTERM_E	SHMT2				SHMT1"489201191	39.71527780	0.0623012340	0.0035733560	0.003277338			
GOTERM_M	nucleic aci				SHMT2 SHMT1"4613186009	3.311036790	0.0463081520	0.0042476820	0.003382			
GOTERM_E	SHMT2				SHMT1"4814201198	9.816964290	0.1490646740	0.0076847910	0.007048181			
UP_KW_BI	SHMT2				SHMT1"2518108327	2.213333330	0.0139949010	0.0035221970	0.003346087			
KEGG_PATH	SHMT2				SHMT1"3319901143	1.114832540	0.0957968060	0.0071857020	0.005604848			
GOTERM_E	SHMT2				SHMT1"4836201193	4.928819440	0.6614276080	0.041587850	0.038142703			
KEGG_PATH	SHMT2				SHMT1"3329901128	2.4764890	0.2087733160	0.0149482040	0.011659599			
GOTERM_C	GSTK1				SHMT2 SHMT1 RDH14 RDH13 NEFH BBC3"46190721	0.0951.						

Annotation Cluster 7Enrichment Score: 2.0983594820890406

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_E	NEFM				NEFH"483201194	19.14583330	0.0053936645	0.41E-04	0.96E-04			
UP_SEQ_FE	NEFM				NEFH"486222692	31.968750	0.0117690310	0.87E-04	0.94E-04			
UP_SEQ_FE	NEFM				NEFH"486222692	31.968750	0.0117690310	0.87E-04	0.94E-04			
GOTERM_E	NEFM				NEFH"488201191	57.17968750	0.0488707770	0.0033401090	0.003063413			
UP_SEQ_FE	NEFM				NEFH"4812222691	15.9843750	0.0503646630	0.0036907060	0.00334597			
GOTERM_C	NEFM				NEFH"4612210951	14.64673910	0.031370450	0.0031868420	0.002520503			
GOTERM_E	NEFM				NEFH"4811201190	14.31250	0.0933410780	0.0051565660	0.004729395			
GOTERM_M	NEFL				NEFM NEFH"4672186002	2.463768120	0.073068440	0.0053405260	0.00425264			
GOTERM_C	GSTO1				NEFL NEFM NEFH"46194210951	1.819251460	0.0811860340	0.00604564				
SMARTSMC	NEFM				NEFH"1673106172	7.269691780	0.0671155010	0.0346566210	0.034656621			
UP_SEQ_FE	NEFM				NEFH"4859222692	3.590042370	0.7169076160	0.0722200770	0.065474246			
INTERPRO	conserved				NEFM NEFH"4661207582	2.193157520	0.4839805870	0.0299564860	0.0239651			
UP_SEQ_FE	NEFM				NEFH"4864222692	1.747070310	0.7718853560	0.0722200770	0.065474246			
UP_SEQ_FE	NEFM				NEFH"4865222692	1.41250	0.7819380370	0.0722200770	0.065474246			
UP_SEQ_FE	NEFM				NEFH"4865222692	1.41250	0.7819380370	0.0722200770	0.065474246			
UP_SEQ_FE	NEFM				NEFH"4868222692	0.467830880	0.8102241050	0.0739763280	0.067066451			
UP_SEQ_FE	NEFM				NEFH"4869222692	0.171195650	0.8190362640	0.0739763280	0.067066451			
UP_KW_CE	NEFM				NEFH"3974178817	8.587318090	0.1773611710	0.0485457520	0.048545752			
UP_SEQ_FE	NEFM				NEFH"4876222692	8.313322370	0.8724649070	0.0853231870	0.077353439			
GOTERM_C	NEFM				NEFH"46121210951	1.369924540	0.953528460	0.1315869730	0.104073333			
GOTERM_E	NEFM				NEFH"48152201198	8.2726151320	0.999999960	0.3147726570	0.288696815			



3318600110.27667988.63E-138.67E-138.90E-13  
3.71666674.17E-114.18E-113.79E-11

3320758109.39657444.80E-113.11E-112.49E-11  
77E-113.11E-112.49E-11

3620758100.28019329.34E-113.11E-112.49E-11  
3-103.62E-10

.78753.76E-101.88E-101.71E-10  
GSTM5"3373901137.405562471.09E-101.09E-108.52E-11

742011950.977195952.15E-091.07E-099.86E-10  
5.29420293.56E-097.12E-105.70E-10

1.25E-087.48E-098.86E-09  
71901134.613316264.48E-091.68E-091.31E-09

72901134.132575765.03E-091.68E-091.31E-09  
80901130.719318181.20E-082.99E-092.33E-09

84901129.256493511.78E-083.56E-092.78E-09  
3E-083.21E-08

7  
744400531.25E-062.09E-071.63E-07  
.860441153.19E-054.55E-063.55E-06

.554510629.93E-051.24E-059.69E-06  
7E-055.20E-05

340021844.99E-045.45E-054.25E-05  
7088215495.45E-045.45E-054.25E-05

DHFR RDH12 RDH11 RDH10 RDH13 GSTM7 GSTM6 GSTM5"33162190112  
GSTM5"3354390115.0287404430.0039280013.28E-042.56E-04

BCR GSTM7 GSTM6 GSTM5"461774186002.9630900450.081930550.0053405260.00425  
0.1102935840.006870620.005471049  
.8832924470.3236669390.0195181220.015542209

BCR GSTM7 GSTM6 GSTM5"381941120372.1215461370.2450499050.0465982490.0465  
ORAI1 RDH14 GSTM7 GSTM6 GSTM5"464292210951.4958568010.9999973710.31912

7720758116.99355881.78E-094.46E-103.57E-10  
i4E-082.21E-082.01E-08

.94E-073.45E-083.13E-08  
0E-073.45E-083.13E-08

.04E-071.74E-081.39E-08  
'6E-073.45E-083.13E-08

'6E-073.45E-083.13E-08  
'6E-073.45E-083.13E-08

784034213.17E-074.53E-083.62E-08

.17E-077.97E-087.22E-08  
.03E-063.45E-077.74E-07  
.12E-061.12E-068.87E-07  
-073.23E-07  
.67E-069.35E-077.45E-07  
.10E-062.10E-062.10E-06  
9.57E-061.06E-068.51E-07  
382109514.330842391.68E-058.38E-060.63E-06  
3.37E-063.37E-063.20E-06  
4.75E-064.75E-064.75E-06  
1.37E-042.73E-052.50E-05  
1.65E-042.75E-052.52E-05  
2.58E-043.68E-053.38E-05  
1.08E-041.80E-051.44E-05  
3.45E-044.31E-053.96E-05  
.13E-051.13E-051.13E-05  
J5  
3.49E-044.99E-053.97E-05  
9.19E-054.59E-054.59E-05  
.01E-040.88E-055.51E-05  
8.78E-040.88E-055.51E-05  
E-05

88E-055.51E-05

3452326470.0019046440.35E-040.35E-04  
0.0010818170.81E-04  
234

NEFM NEFH"391165178814.3290634970.0020989320.0021010150.002101015  
.0158979260.0020030610.001584239  
NEFM NEFH"461225210954.1179236910.0225677650.0025359940.002005741  
5459840.0059912890.0030042030.002853993  
982245210.0346943550.003209530.002538446  
096263790.0466349390.0039789180.003146963  
5793122570.1430248850.0076847910.007048181  
0.1889244820.0092250670.00846086  
.0120093680.0060390050.006039005  
556

!60.005920133  
7489  
2861

B3GLCT RDH11 VOPP1 ORAI1 AGTR2"483276222691.9826388890.9433152770.113905

3.8984997190.103826850.0821176

10.123520457

B3GLCT RDH11 RDH10 ORAI3 ORAI2 VOPP1 ORAI1 AGTR2"305644148551

30.223942569

B3GLCT RDH11 RDH10 ORAI3 ORAI2 VOPP1 ORAI1 AGTR2"306094148551

10.7876674490.714094116

1.7151113310.9561106440.5788040290.549863827

411

KCNC4 B3GLCT BCR RDH11 RDH10 ORAI3 ORAI2 VOPP1 ORAI1  
AGTR2"483708222691.251179881000.91160221

3637078810.1345572220.999998220.9574779690.957477969

RDH11 RDH10 ORAI3 ORAI2 VOPP1 AGTR2"466452210951.066150705000.79816

ORAI1 NEFM AGTR2"354145029671.0725762540.991138290.9539182980.953918298

KCNC4 B3GLCT RDH11 RDH10 ORAI3 ORAI2 VOPP1 ORAI1 STRN

ORAI3 ORAI1 AGTR2"466199210950.88773084100.812607166

VOPP1 ORAI1 AGTR2"486650222690.837180451000.91160221

07

.02E-053.01E-053.01E-05

51E-05

RDH13"46624186000.479933110.0016484972.06E-041.64E-04

298

628120374.5395993970.0136166790.0034266550.003426655

.9236363640.0123220320.0035221970.003346087

.6186868690.3738779670.0194952440.017880253

99



5930.629114804

5.86E-045.35E-04

414

9238047470.999996370.3191272720.252400661

1  
150.004781556

88

30.223942569

0291

7969

.200

3660222690.778128494000.91160221

09010958.1086102330.0011750810.35E-040.86E-04

'088

840.621455584

0291

7969

504

9238047470.999996370.3191272720.252400661

'20.82146972

57831

1.9999999460.3786643220.299489055

177969

.8636830990.0018228391.66E-041.29E-04

i2641

i98249

72720.252400661



1.4914658630.4233092850.3504678310.350467831

1.3813313640.667243570.3504678310.350467831

STRN RDH13 AGTR2"467861210951.22507646410.4856596690.384112647

5138

RDH13 AGTR2"3991521178811.0019387660.99999997411