

Table 1: Mapping of genes with the R code and their aliases.

	Annotation	Gene Symbol	Aliases
Genes	g1	CD36	SCARB3, FAT, GPIV, GP3B
	g2	FATP	SLC27A1, ACSVL5, MGC71751
	g3	FABP	FABPL, L-FABP, FABP1
	g4	PPARA	PPAR-Alpha, NR1C1
	g5	PPARD	PPAR-Delta, NR1C2
	g6	PPARG	PPAR-Gamma, NR1C3
	g7	RXR	Retinoid X Receptor Alpha, NR2B1
	g8	TNFR	TNFRSF1A, CD120a, TNFR60
	g9	ITGB	MSK12, FNRB, MDF2
	g10	PI3K	PIK3CA, PI3K-Alpha
	g11	AKT	AKT Serine/Threonine Kinase 1
	g12	GPCR	LGR6, VTS20631
	g13	ADCY	Adenylate Cyclase Type I, AC1
	g14	CAMP	CAP18, FALL39, LL37
	g15	PKA	PRKACA, PPNAD4
	g16	RAS	KRAS Proto-Oncogene
	g17	RAF	RAF1 Proto-Oncogene, C-Raf
	g18	MEK	MAP2K1, MKK1
	g19	ERK	MAPK1, P42MAPK
	g20	TAK1	MAP3K7, MEKK7
	g21	MKK3	MAP2K3, MEK3
	g22	P38	MAPK14, CSAID-Binding Protein

Table 2: Mapping of output processes with the genes and their aliases.

	Annotation	Gene Symbol	Aliases
Output Processes	Cell Survival	ILK	Integrin-Linked Protein Kinase
		PDPK	PkB Kinase Like Gene 1, PDK1
	Adipocyte Differentiation	FABP	Fatty Acid-Binding Protein 1
		SORBS1	Sorbin and SH3 Domain Containing 1
		PLIN	Perilipin 1, PER1
		MMP1A	Matrix Metallopeptidase 1, CLGN
	Adaptive Thermogenesis	UCP	Thermogenin, SLC25A7
	Glucogenesis	PCK	Phosphoenolpyruvate Carboxykinase 1
		GK2	GALK2, Galactokinase 2
		AQP7	Aquaporin 7, Aquaglyceroporin-7
	Ubiquitination	UBC	Ubiquitin C
	Ketogenesis	HMGCS	3-Hydroxy-3-Methylglutaryl-CoA Synthase 1
	Lipid Transport	APOA1	Apolipoprotein A1, HPALP2
		APOA2	Apolipoprotein A1, ApoAII
		APOA3	Apolipoprotein A3, ApoAIV
		APOA5	Apolipoprotein A5, ApoAV
		PLTP	Phospholipid Transfer Protein, BPIFE
	Lipogenesis	ME	Malic Enzyme, NADP-ME
		SCD	Stearoyl-CoA Desaturase, HSCD1
		FADS	Fatty Acid Desaturase 2, D6D
	Cholesterol Metabolism	CYP7A1	Cytochrome P450 Family 7 Subfamily A Member 1
		NR1H3	Oxysterols Receptor LXR-Alpha
		CYP8B1	CP8B, CYP12
		CYP27	Cytochrome P450 Family 27 Subfamily A Member 1
	Fatty Acid Oxidation	EHHADH	ECHD, MFE1, PBE
		CYP4A1	Cytochrome P450 Family 4 Subfamily A Member
		ACAA1	Acetyl-CoA Acyltransferase 1, PTHIO
		SCP2	Sterol Carrier Protein 2, NLTP
		ACOX	Acyl-CoA Oxidase 1, AOX
		CPT1	Carnitine Palmitoyltransferase 1A
		CPT2	Carnitine Palmitoyltransferase 2
		ACADL	Acyl-CoA Dehydrogenase Long Chain
		ACADM	MCAD, ACAD1