

Gene Symbol	Gene Name	Category	Left Primer	Right Primer	Universal Probe #
FTFT1	farnesyl-diphosphate farnesyltransferase 1	Cholesterol/lipids	TCTGAACAGGAGTGGGACAA	AAAGACGGGAAAGGCCAAT	#26
FDPS	farnesyl diphosphate synthase	Cholesterol/lipids	CCTGTTGTGTCCGTTTTGAA	GAACCCAGCCACCTCTCC	#18
SQLE	squalene epoxidase	Cholesterol/lipids	CATGAGTCTCCGAAAGCAG	ACAACACCTTCAATAAACTTTGCAT	#53
EBP	emopamil binding protein (sterol isomerase)	Cholesterol/lipids	GTGGTGATCGCCTTTCTCC	GAAGTAGAGCACATCCCCATAGA	#89
SCD	stearoyl-CoA desaturase (delta-9-desaturase)	Cholesterol/lipids	CCTAGAAGCTGAGAACTGGTGA	ACATCATCAGCAAGCCAGGT	#82
ACADVL	acyl-CoA dehydrogenase, very long chain	Cholesterol/lipids	GATCAGGTGTTCCCATACCC	GGATCGTTCACTTCTCGAA	#22
LDLR	low density lipoprotein receptor	Cholesterol/lipids	AGGACGGCTACAGCTACCC	CTCCAGGCAGATGTTACAG	#65
NPC1	Niemann-Pick disease, type C1	Cholesterol/lipids	CGATTACCACACGCACTTTC	GGGTCATGGAGCAAACCTGT	#34
NPC2	Niemann-Pick disease, type C2	Cholesterol/lipids	CAGTGAAAAGCGAATATCCCTCTA	TTTGGTTTTTGTATCCTGAAGT	#22
SREBF2	sterol regulatory element binding transcription factor 2	Cholesterol/lipids	GCCCTGGAAGTGACAGACC	CAAAAGCTCTCCGGTTATGC	#19
ABCA4	ATP-binding cassette, sub-family A (ABC1)	Eye disease gene	ACCCTTACTCGAGACGCTCA	ATGATGATGGTTCTGCCTGA	#68
MT1E	metallothionein 1E	Zn-binding	TGCTTGTTCTGCTCACTGGT	GCATTTGCACTCTTTGCACT	#67
MT1F	metallothionein 1F	Zn-binding	TGCTTCTTCGCTTCTCTCTTG	CAGGTGCAGGAGACACCA	#68
MT1G	metallothionein 1G	Zn-binding	ACCCCAACTGCTCCTGTG	AGGAGCAGCAGCTCTTCTTG	#17
MT1H	metallothionein 1H	Zn-binding	TGGGAAGTCCAGTCTCACCT	TTCTTGAGGAGGTGCATT	#68
MT2A	metallothionein 2A	Zn-binding	CTTCAGCTCGCCATGGAT	TGCATTTGCACTCTTTGCAT	#68
SLC39A1	solute carrier family 39 (zinc transporter)	Zn-binding	GGAGAAAGCTCCGGGAAA	GAGTGACGTCAGTTAGGAGCAA	#71

FASN	fatty acid synthase, mRNA	Zn-binding	CAGGCACACACGATGGAC	CGGAGTGAATCTGGGTTGAT	#11
MARCH7	MARCH7-201 membrane-associated ring finger clusterin-like 1 (retinal)	Zn-binding	AACCTGGAGGATTTTGATATTCAT	GCACAAGTGAATAACACCAC	#54
CLUL1	clusterin-like 1 (retinal)	Anti-oxidant	ATTTGGCTGGGTGTCTGAAC	TTCCTTCATGAATCCTTGGAAC	#57
SOD2	superoxide dismutase 2, mitochondrial	Anti-oxidant	CTGGACAAACCTCAGCCCTA	TGATGGCTTCCAGCAACTC	#22
DICER	dicer 1, ribonuclease type III	AMD-related	TCCGATGGTTCTCGAAGG	GCAAAGCAGGGCTTTTCAT	#47
FBLN1	fibulin 1	Extra-cellular Matrix	GAGTGCCCTGAGAACTACCG	GCGGACCGTGTCTGTCTT	#67
HTRA1	HtrA serine peptidase 1	Extra-cellular Matrix	CACTCATCAAATGACCACCA	ATGGCGACCACGAACTCT	#18
SERPINE1	serpin peptidase inhibitor, clade E, member 1	Extra-cellular Matrix	CTCCTGGTTCTGCCCAAGT	CAGGTTCTTAGGGGCTTCC	#80
TGFB1	transforming growth factor, beta 1	Extra-cellular Matrix	GCAGCACGTGGAGCTGTA	CAGCCGTTGCTGAGGTA	#72
TUBA1A	tubulin, alpha 1a	Tubulin	CTTCGTCTCCGCCATCAG	TGCCAATCTGGACACCA	#58
TUBB2A	tubulin, beta 2A class IIa	Tubulin	AAATATGTACCTCGGGCCATC	GTTATCCC GGCTCCACTCT	#50
STMN1	stathmin 1	Tubulin	GGAACGTTTGCAGAGAAGA	GAGTGGAGACAAGATTGCTCAG	#57
EFEMP1	EGF containing fibulin-like extracellular matrix protein 1	AMD-related	AACCCTTCCCACCGTATCC	TGCAGTGC ACTCGTCTATGTC	#40
RPE65	Retinal pigment epithelium-specific 65 kDa protein	RPE marker	CCAGATGCCTTGAAGAAGA	CTTGGCATT CAGAATCAGGAG	#68
RLBP1	Retinaldehyde-binding protein 1	REP marker	AGATCTCAGGAAGATGGTGGAC	TGGATGAAGTGGATGGCTTT	#1
ABCF3	ATP-binding cassette, sub-family F, member 3	Control	CCAACAGGGCCTCTCAAGT	CGACCTCTGATTCCTTGTC	#27
BCL3	B-cell CLL/lymphoma 3	Control	CGACATCTACAACAACCTACGG	CCACAGACGGTAATGTGGTG	#39
ENOA	enolase 1, (alpha)	Control	TCCCAACATCCTGGAGAATAA	ATGCCGATGACCACCTTATC	#1
TUFM	Tu translation elongation factor	Control	TGCAGCCATCACGAAGATT	GGCATTGTCAATCTCCTCGTA	#10
VIM	vimentin	Control	GTTTCCCCTAAACCGCTAGG	AGCGAGAGTGGCAGAGGA	#56

Appendix 4. Probe and primer combinations used for qPCR assays.