

# Upregulation of Hepatic Glutathione S-Transferase Alpha 1 Ameliorates Metabolic Dysfunction-Associated Steatosis by Degrading Fatty Acid Binding Protein 1

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Supplementary Table S1 qRT-PCR Primer

GENE	Primer (5'-3')	
Human <i>TAGLN</i>	Forward	AGCGTCCTGGATCTCTCTCA
	Reverse	ATGTCTGGGGAAAGCTCCTT
Human <i>CPT1A</i>	Forward	TCCAGTTGGCTTATCGTGGTG
	Reverse	TCCAGAGTCCGATTGATTTTTGC
Human <i>MVP</i>	Forward	AGGGCTTGGTGCTGTTTGATGTC
	Reverse	ATCTCCACGACCTCCACTTCCTTC
Human <i>FTL</i>	Forward	GCGATGATGTGGCTCTGGAAGG
	Reverse	TGTGGAGGTTGGTCAGGTGGTC
Human <i>CD63</i>	Forward	TTCAACGAGAAGGCGATCCATAAGG
	Reverse	CAGATGAGGAGGCTGAGGAGACC
Human <i>TTYH3</i>	Forward	TGCTGAATGGCACGGAGGTGAA
	Reverse	CTCCACGCCGTCATAGCAGAAG
Human <i>KRT19</i>	Forward	GGCGATGTGCGAGCTGATAGTG
	Reverse	GTCCCTTCCTTCCCATCCCTCTAC
Human <i>PLIN2</i>	Forward	ACCTCATGTCCTCAGCCTATCTCAG
	Reverse	CAGTCACAGTAGTCGTCACAGCATC
Human <i>MTMR11</i>	Forward	CAGCACGGTCAACGAGAGGTTC
	Reverse	CTACAGATGAATCAGGCAGGCAGAG
Human <i>FTH1</i>	Forward	TCCTACGTTTACCTGTCCATGT
	Reverse	GTTTGTGCAGTTCCAGTAGTGA
Human <i>CPLX2</i>	Forward	GATCCTGGACAATACCTCGGAG
	Reverse	CTCCACAGCATCAAGAGACTGC
Human <i>H2AC14</i>	Forward	GTGGTAAGCAGGGAGGCAAAGC

	Reverse	GCGGGATGATGCGAGTCTTCTTG
Human <i>TSPAN3</i>	Forward	GCTTGGAGGCTGGATAGGCTTTG
	Reverse	CCACCTTCTTCTCAGTTCACCTTCC
Human <i>MAP1B</i>	Forward	ATCTCGACACTCTGCAAGATTCT
	Reverse	TGTTTCTAAAACGTCACTTCGGT
Human <i>FABP1</i>	Forward	TCGGAAATCGTGCAGAATGGGAAG
	Reverse	TGGTGATTATGTGCGCCGTTGAGTTC
Human <i>PRKARIA</i>	Forward	AGCACACTGAGAAAGCGGAAGATG
	Reverse	GGCAGCACGAGGACGATTTCATC
Human <i>IGFBP1</i>	Forward	TTGGGACGCCATCAGTACCTA
	Reverse	TTGGCTAAACTCTCTACGACTCT
Human <i>SCD1</i>	Forward	CGTTGCCACTTTCTTGCGATATGC
	Reverse	TGAAGTTGATGTGCCAGCGGTAC
Human <i>GPAT1</i>	Forward	CCAGTGATGCTGCTGATGAAGGTAG
	Reverse	CGTTCCTGCTAGTGTGGGTGATTG
Human <i>GPAT2</i>	Forward	TGTGGTCCAGGCGGTCATAGAG
	Reverse	AGCTTCTGGCACTGACGATGTATTC
Human <i>GPAT3</i>	Forward	CGCTATTGTGTCCTACTGCCTCTG
	Reverse	TTCCCATCAAGCCGCCATGAAC
Human <i>GPAT4</i>	Forward	CGTACCTGCTGCGAATGATGACC
	Reverse	GCTTCTGCTGCTCCTCCTTGAAC
Human <i>LIPIN</i>	Forward	GGCTGCTAAGTCTTCTTCTCCACAC
	Reverse	TGCTCCTAAGGTCTCCAGGTCTTC
Human <i>DGAT1</i>	Forward	ACTCCGAGTCTGTACCTACTTCTG
	Reverse	GGCTATTGGCTGTCCGATGATGAG
Human <i>DGAT2</i>	Forward	AGGTCATCTCAGTGCTCCAGTGG
	Reverse	CGGAAGTTGCCTGCCAGTGTAG
Human <i>ACSS2</i>	Forward	TTTGCTGCTTCTGTTCTGGGTCTG
	Reverse	GTCTCTTATGGGCTGGGTTCTGTTC
Human <i>ACSS3</i>	Forward	GAACAAACACTCGCCCTCTACCAG
	Reverse	ATGCCATGCTTGACCAAGACACC
Human <i>SREBP1</i>	Forward	TACCACCAGCGTCTACCATAGCC
	Reverse	CTTGCGATGCCTCCAGAAGTACAC
Human <i>FAS</i>	Forward	CAATTCTGCCATAAGCCCTGTCCCTC
	Reverse	ACTTGGTGTTGCTGGTGAGTGTG
Human <i>CPT2</i>	Forward	CGCTTTGTGCCTTCCTCTCTGTC
	Reverse	TCTCGGTTCTCACTGGTCAGGTATG
Human <i>ACOX1</i>	Forward	CCGCCTGGAAC TTGGAGATCATTG
	Reverse	GGTCCCGATTTCACGAATAGGTACG
Human <i>ACC1</i>	Forward	TGTCCTTCTCCTCCAACCTCAACC
	Reverse	CTGCCAGCCTGTCATCCTCAATATC
Human <i>ACC2</i>	Forward	GGTGAAGGAAGGTGTGGAAGTGAC
	Reverse	ATTGGTGATGAACAGGCGGATGG
Human <i>ACSL1</i>	Forward	ACTCTTCCGACCAACACGCTTATG

	Reverse	CTTCTGGATCAGTGCTGAGCCTATG
Human <i>ACSL4</i>	Forward	TGGGCTAAATGAATCTGAGGCTTCC
	Reverse	GGCGTTGGTCTACTTGGAGGAATG
Human <i>CD36</i>	Forward	GGCTGTCATTGGTGCTGTCCTG
	Reverse	TGCTGCTGTTTCATCATCACTTCCTG
Human <i>FATP1</i>	Forward	ACAGTCGTCCTCCGCAAGAAATTC
	Reverse	AGCAGCTCCATTGTGTCCTCATTG
Human <i>FATP2</i>	Forward	AGCGGATTGAAGGCAGATGATGTC
	Reverse	CTCCTCGTAAGCCATTTCCCAGTG
Human <i>FATP3</i>	Forward	CAAGTTCTCGGCTGGTCAGTTCTG
	Reverse	CGCTGTCCTGTGTAGTTGATGGTG
Human <i>FATP4</i>	Forward	CAATAGCCGCATCCTGTCCTTCG
	Reverse	CTCGTCCATCACCAGCACATCAC
Human <i>FATP5</i>	Forward	AGCCCTGCCCTCTTCATCTATAACC
	Reverse	TCCCACACATCAGCCCGTAGTC
Human <i>FATP6</i>	Forward	TTGGGATGACTTCTGGTTCGTGTTG
	Reverse	GGAGGGAGTTGGAGCGAATGTTG
Human <i>GSTA1</i>	Forward	CTGCCCCGTATGTCCACCTG
	Reverse	AGCTCCTCGACGTAGTAGAGA
Human <i>GAPDH</i>	Forward	CGGAGTCAACGGATTTGGTCGTAT
	Reverse	AGCCTTCTCCATGGTGGTGAAGAC
Murine <i>Gsta1</i>	Forward	GCAGACCAGAGCCATTCTCAACTAC
	Reverse	AGGCTGCTGATTCTGCTCTTGAAG
Murine <i>Gapdh</i>	Forward	CTCTGGAAAGCTGTGGCGTGATG
	Reverse	ATGCCAGTGAGCTTCCCGTTCAG