

1 **Germinated soy germ extract ameliorates obesity through beige fat activation**

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Adipogenesis	<i>C/EBP-β</i>	CCTGCGGGGTTGTTGATG	TCACTTTAATGCTCGAAACGGAAA
	<i>C/EBP-α</i>	GCATCTGCGAGCACGAGA	CCGGGTAGTCAAAGTCACCG
	<i>PPAR-γ</i>	GCCCTTTGGTGACTTTATGGA	GCAGCAGGTTGTCTTGGATG
	<i>SREBP-1c</i>	ATCGCAAACAAGCTGACCTG	AGATCCAGGTTTGAGGTGGG
Lipogenesis	<i>ACC</i>	TCCCCAAGTTCTTCACGTTCA	CAGGCTCCAAGTGGCGATAA
	<i>FAS</i>	TAGCCAGCAGAGTCTACA	TCACATCAGCCACTTGAG
	<i>SCD1</i>	CATCGCCTGCTCTACCCTTT	GAAGTGCCTTGAAACCTG
Metabolic factor	<i>FABP4</i>	GGATGGAAAGTCGACCACAA	TGGAAGTCACGCCTTTCATA
	<i>Adiponectin</i>	TGTTCTCTTAATCCTGCCCA	CCAACCTGCACAAGTTCCTT
Thermoregulatory marker & activation	<i>UCP1</i>	ACGGGGACCTACAATGCTTAC	CAGCTTGGTACGCTTGGGTAC
	<i>CIDEA</i>	CGTGGTGGACACAGAGGAGTT	CATTGAGACAGCCGAGGAAGT
	<i>CPT1</i>	TATCGCCACCTGCTGAACC	TTGAAGGTGACGAAGGTGGT
	<i>PGC-1α</i>	TGTTCCCGATCACCATATTCC	AGCTGTCTGACCTGGGCCTAC
Beige fat marker	<i>PPAR-α</i>	TACTGCCGTTTTCACAAGTGC	AGGTCGTGTTACAGGTAAGA
	<i>TMEM26</i>	ACCCTGTCTATCCACAGAG	TGTTTGGTGGAGTCCTAAGGTC
	<i>CD137</i>	CGTGCAAGACTCCTGTGATAAC	GTCCACCTATGCTGGAGAAGG
Beta-oxidation	<i>Tbx-1</i>	GTGGACCCTCGAAAAGACAG	GATCCGGTGATTCTGGTAGG
	<i>ACOX1</i>	GAAGATGAGGGAATTTGGCA	CCTGATTCAGCAAGGTAGGG
	<i>LCAD</i>	CACTCAGATATTGTCATGCCCT	TCCATTGAGAATCCAATCACTC
LD formation & fusion	<i>MCAD</i>	ACCCTGTGGAGAAGCTGATG	AGCAACAGTGCTTGGAGCTT
	<i>Caveolin1</i>	GCGACCCCAAGCATCTCAA	ATGCCGTCGAAACTGTGTGT
	<i>Caveolin2</i>	TCACCAGCTCAACTCTCATCT	GCCAGAAATACGGTCAGGAACT
	<i>Plin1</i>	AGATCCCGGCTCTTCAATACC	AGAACCTTGTGAGAGGTGCTT
	<i>FSP27</i>	AGGCCCTGTCGTGTTAGCAC	CATGATGCCTTTGCGAACCT
Lipolysis	<i>CGI-58</i>	TTGCAGGACCTTTTGGGTTA	TCACCGTGTCTCTTCAAACA
	<i>ATGL</i>	TTCACCATCCGCTTGTGGAG	AGATGGTCACCCAATTTCTC
Triglyceride synthesis	<i>HSL</i>	GCTGGGCTGTCAAGCACTGT	GTAAGTGGTAGGCTGCCAT
	<i>ACSL1</i>	ACCACCTTCTGGTATGCCAC	TGACATCGTCGTAGTAGTACACC
Endocannabinoid system	<i>ACSL4</i>	CCTGAGGGGCTTCAAATTCAC	GTTGGTCTACTTGGAGGAACG
	<i>CB1</i>	GGGCACCTTCACGGTCTG	GTGGAAGTCAACAAAGCTGTAGA
	<i>NAPE-PLD</i>	AGCGCCAAGCTATCAGTATCC	TCAGCCATCTGAGCACATTCCG
	<i>PTPN22</i>	GGCAATCCACCAAGTACAAGG	CCCTGGGTAGCAATATAAGCCT
	<i>FAAH</i>	ACTTGGACGTGGTGCTAACC	GCCTATACCTTTTTTTCATGCC
	<i>CB2</i>	AGAAAGCCCTCGTACCTGTTT	ATGGTCACACTGCCGATCTTC
	<i>DAGL-α</i>	TCTTCGGCTTGGTCTATAACCC	TCGGCAATCATAAGCTCAGA
	<i>DAGL-β</i>	GGGCAAGGCGGCTCAAGTGT	GCCTCACAGAAGCCACGCACA
Reference gene	<i>MAGL</i>	CATGGAGCTGGGGAACACTG	GGAGATGGCACC GCCCATGGAG
	<i>β actin</i>	AGGCCAACCGTGAAAAGATG	ACCAGAGGCATACAGGGACA
	<i>18s rRNA</i>	ACGGACCAGAGCGAAAGCAT	TGTCAATCCTGTCCGTGTCC
	<i>HPRT1</i>	GCCCCAAAATGGTTAAGGTTGCA	ATCCAACAAAGTCTGGCCTGTAT