

Recombinant Full Length Human MITF Protein, GST-tagged

Cat. No. MITF-6272HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MITF full-length ORF (NP_937802.1, 1 a.a. - 520 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	520 amino acids
Description	This gene encodes a transcription factor that contains both basic helix-loop-helix and leucine zipper structural features. It regulates the differentiation and development of melanocytes retinal pigment epithelium and is also responsible for pigment cell-specific transcription of the melanogenesis enzyme genes. Heterozygous mutations in the this gene cause auditory-pigmentary syndromes, such as Waardenburg syndrome type 2 and Tietz syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]
Molecular Mass	84.6 kDa
AA Sequence	MQSESGIVPDFEVGEEFH EEPKTY YELKSQPLKSSSSAEHPGASKPPISSSSMTSRI LLRQQLMREQMQEQERREQQQLQAAQFMQQRVPVSQTPAINVSVPTTLPSATQV PMEVLKVQTHLENPTKYHIQQAQRQVKQYLSTTLANKHANQVLSLPCPNQPGDHV MPPVPGSSAPNSPMAMLT LNSNCEKEGFYKFEEQNRAESEC PGMNTHSRASCMQ MDDVIDDIISLESSYNEEILGLMDPALQMANTLPVSGNLIDLYGNQGLPPPGLTISNSC PANLPNIKRELTESEARALAKERQKKDNHNLIERRRRFNINDRIKELGTLIPKSNPD

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MRWNKGITLKASVDYIRKLQREQQRAKELENRQKKLEHANRHLLLRIQELEMQARA
HGLSLIPSTGLCSPDLVNRIIKQEPVLENCSDLLQHHADLTCTTTDLTDGTITFNNN
LGTGTEANQAYSVP TKMGSKLEDILMDDTLSPVGVTDPLLSSVSPGASKTSSRRSS
MSMEETEHTC

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [MITF microphthalmia-associated transcription factor \[Homo sapiens \]](#)

Official Symbol [MITF](#)

Synonyms MITF; microphthalmia-associated transcription factor; Waardenburg syndrome, type 2A , WS2, WS2A; bHLHe32; homolog of mouse microphthalmia; MI; class E basic helix-loop-helix protein 32; WS2; WS2A;

Gene ID [4286](#)

mRNA Refseq [NM_000248](#)

Protein Refseq [NP_000239](#)

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MIM	156845
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UniProt ID	O75030
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