

# Recombinant Full Length Human MITF Protein, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Human MITF full-length ORF ( NP_937802.1, 1 a.a. - 520 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	520 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	84.6 kDa
<b>AA Sequence</b>	MQSESGIVPDFEVGEEFH EEPKTY YELK SQPLKSSSSAEHPGASKPPISSSSMTSRI LLRQQLMREQMQEQERREQQK LQAAQFMQQRVPVVSQTPAINVSVPTTLPSATQV PMEVLKVQTHLENPTKYHIQQAQRQQVKQYLSTTLANKHANQVLSLPCPNQPGDHV MPPVPGSSAPNSPMAMLT LNSNCEKEGFYKFEEQNRAESEC PGMNTHSRASCMQ MDDVIDDIISLESSYNEEILGLMDPALQMANTLPVSGNLIDLYGNQGLPPPGLTISNSC PANLPNIKRELTESEARALAKERQKKDNHNLIERRRRFNINDRIKELGTLIPKSNDPD

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MRWNKGITLKASVDYIRKLQREQQRAKELENRQKKLEHANRHLLLRIQELEMQARA  
HGLSLIPSTGLCSPDLVNRIIKQEPVLENCSDLLQHHADLTCTTTLDLTDGTITFNNN  
LGTGTEANQAYSVP TKMGSKLEDILMDDTLSPVGVTDPLLSSVSPGASKTSSRRSS  
MSMEETEHTC

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	MITF microphthalmia-associated transcription factor [ Homo sapiens ]
<b>Official Symbol</b>	MITF
<b>Synonyms</b>	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;
<b>Gene ID</b>	4286
<b>mRNA Refseq</b>	NM_000248
<b>Protein Refseq</b>	NP_000239

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<b>MIM</b>	156845
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<b>UniProt ID</b>	O75030
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