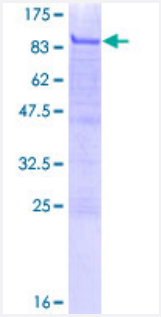
Full-Length

MITF (Human) Recombinant Protein (P02)

Catalog # H00004286-P02 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MITF full-length ORF (NP_937802.1, 1 a.a. - 520 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MQSESGIVPDFEVGEEFHEEPKTYYELKSQPLKSSSSAEHPGASKPPISSSSMTSRILLRQQLMR EQMQEQERREQQQKLQAAQFMQQRVPVSQTPAINVSVPTTLPSATQVPMEVLKVQTHLENPTKY HIQQAQRQQVKQYLSTTLANKHANQVLSLPCPNQPGDHVMPPVPGSSAPNSPMAMLTLNSNCE KEGFYKFEEQNRAESECPGMNTHSRASCMQMDDVIDDIISLESSYNEEILGLMDPALQMANTLPV SGNLIDLYGNQGLPPPGLTISNSCPANLPNIKRELTESEARALAKERQKKDNHNLIERRRRFNINDRI KELGTLIPKSNDPDMRWNKGTILKASVDYIRKLQREQQRAKELENRQKKLEHANRHLLLRIQELEM QARAHGLSLIPSTGLCSPDLVNRIIKQEPVLENCSQDLLQHHADLTCTTTLDLTDGTITFNNNLGTGT EANQAYSVPTKMGSKLEDILMDDTLSPVGVTDPLLSSVSPGASKTSSRRSSMSMEETEHTC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	84.6
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — MITF

Entrez GeneID	4286
GeneBank Accession#	NM_198159.1
Protein Accession#	NP_937802.1
Gene Name	MITF
Gene Alias	MI, WS2A, bHLHe32
Gene Description	microphthalmia-associated transcription factor
Omim ID	103470 103500 156845 193510
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	OTTHUMP00000195123|OTTHUMP00000195140|homolog of mouse microphthalmia

Pathway

- Melanogenesis
- Melanoma
- Pathways in cancer

Disease

- Genetic Predisposition to Disease
- Lymphoma
- Malignant melanoma
- Melanoma
- Neoplasm Metastasis
- Osteoporosis
- Retinal Diseases
- Skin Neoplasms
- Tobacco Use Disorder