

## Recombinant Full Length Human MSX2 Protein, GST-tagged

Cat. No. MSX2-6477HF Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human MSX2 full-length ORF ( AAH15509.1, 1 a.a. - 267 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 267 amino acids

**Description** This gene encodes a member of the muscle segment homeobox gene family. The encoded protein is a transcriptional repressor whose normal activity may establish a balance between survival and apoptosis of neural crest-derived cells required for proper craniofacial morphogenesis. The encoded protein may also have a role in promoting cell growth under certain conditions and may be an important target for the RAS signaling pathways. Mutations in this gene are associated with parietal foramina 1 and craniosynostosis type 2.

**Molecular Mass** 55 kDa

**AA Sequence** MASPSKGNLDFSPDEEGPAVVAGPGPGGGAEGAAEERRVKVSSLPFSVEALMSD  
KKPPKEASPLPAESASAGATLRPLLLSGHGAREAHSPGPLVKPFETASVKSENSED  
GAAWMQEPGRYSPPRHTSPTTCTLRKHKTNRKPRTPTTSQLLALERKFRQKQYL  
SIAERAEFSSSLNLTETQVKIWFQNRRAKAKRLQEALEKLMMAAKPMLPSSFSLPF  
PISSPLQAASIYGASYPFHRPVLPIPPVGLYATPVGYGMYHLS

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<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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MSX2 msh homeobox 2 [ Homo sapiens ]
<b>Official Symbol</b>	MSX2
<b>Synonyms</b>	MSX2; msh homeobox 2; msh (Drosophila) homeo box homolog 2 , msh homeobox homolog 2 (Drosophila) , parietal foramina 1 , PFM1; homeobox protein MSX-2; craniosynostosis; type 2; CRS2; FPP; HOX8; MSH; PFM; msh homeo box 2; homeobox protein Hox-8; msh homeobox homolog 2; PFM1;
<b>Gene ID</b>	4488
<b>mRNA Refseq</b>	NM_002449
<b>Protein Refseq</b>	NP_002440
<b>MIM</b>	123101
<b>UniProt ID</b>	P35548

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