



## Human MSX2 peptide (DAG-P0850)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	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. [provided by RefSeq, Jul 2008]
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the Msh homeobox family. Contains 1 homeobox DNA-binding domain.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">MSX2 msh homeobox 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	MSX2
<b>Synonyms</b>	MSX2; msh homeobox 2; FPP; MSH; PFM; CRS2; HOX8; PFM1; homeobox protein MSX-2; msh homeo box 2; homeobox protein Hox-8; msh homeobox homolog 2;
<b>Entrez Gene ID</b>	<a href="#">4488</a>

<b>mRNA Refseq</b>	<a href="#">NM_002449.4</a>
<b>Protein Refseq</b>	<a href="#">NP_002440.2</a>
<b>UniProt ID</b>	P35548
<b>Chromosome Location</b>	5q35.2
<b>Pathway</b>	HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Neural Crest Differentiation, organism-specific biosystem;
<b>Function</b>	RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity; protein binding; sequence-specific DNA binding; transcription cofac