

## Recombinant Human MSX2 cell lysate

Cat. No. MSX2-1141HCL Lot. No. (See product label)

### SPECIFICATION

|                       |  |
|-----------------------|--|
| <b>Species</b>        | Human  |
| <b>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. |
| <b>Size</b>           | 100 ul   |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)  |
| <b>Applications</b>   | Western Blot;  |

### GENE INFORMATION

|                        |  |
|------------------------|--|
| <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; |

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craniosynostosis; type 2; CRS2; FPP; HOX8; MSH; PFM; msh homeo box 2;  
homeobox protein Hox-8; msh homeobox homolog 2; PFM1;

**Gene ID**

4488

**mRNA Refseq**

NM\_002449

**Protein Refseq**

NP\_002440

**MIM**

123101

**UniProt ID**

P35548

**Chromosome  
Location**

5q35.2

**Pathway**

HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved  
biosystem;

**Function**

protein binding; sequence-specific DNA binding; sequence-specific DNA binding  
transcription factor activity; transcription factor binding; transcription regulatory region  
DNA binding;

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