

Product datasheet for RC202056L2

MSX2 (NM_002449) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MSX2 (NM 002449) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: MSX2

Synonyms: CRS2; FPP; HOX8; MSH; PFM; PFM1

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC202056).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_002449

ORF Size: 801 bp



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MSX2 (NM_002449) Human Tagged Lenti ORF Clone - RC202056L2

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 002449.4</u>

RefSeq Size: 2224 bp

RefSeq ORF: 804 bp

Locus ID: 4488

 UniProt ID:
 P35548

Cytogenetics: 5q35.2

Domains: homeobox

Protein Families: Druggable Genome, Transcription Factors

MW: 28.9 kDa

Gene Summary: 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

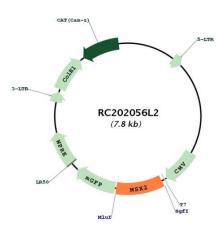
survival and apoptosis of neural crest-derived cells required for proper craniofacial

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]



Product images:



Circular map for RC202056L2