

Product datasheet for RC216886

HMX2 (NM_005519) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HMX2 (NM_005519) Human Tagged ORF Clone

Tag: Myc-DDK

Synonyms: H6L; Nkx5-2

Mammalian Cell Neomycin

Selection:

Symbol:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC216886 representing NM_005519

HMX2

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGCGGACCGACGCGTACGCCGCCGCCCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Red=Cloning site Green=Tags(s)

MGSKEDAGKGCPAAGGVSSFTIQSILGGGPSEAPREPVGWPARKRSLSVSSEEEEPDDGWKAPACFCPDQ HGPKEQGPKHHPPIPFPCLGTPKGSGGSGPGGLERTPFLSPSHSDFKEEKERLLPAGSPSPGSERPRDGG AERQAGAAKKKTRTVFSRSQVYQLESTFDMKRYLSSSERACLASSLQLTETQVKTWFQNRRNKWKRQLSA ELEAANMAHASAQTLVSMPLVFRDSSLLRVPVPRSLAFPAPLYYPGSNLSALPLYNLYNKLDY

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6188 c12.zip

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:



CTATAGGGGGGG	_EcoR1 ATAGGGGGGGGGGAATTCGTC					BamHIKpnI RBS				Kozac Consensus Sgf1 GATCTGCCGCCGCGCATCGC C ATG								
ORF	AGC S	Rs. GGA G	rll CCG P		lu I CGT R	ACG T	No CGG R		_	ho I GAG E	CAG Q	AA.F K		.Tag AT	TCA S	GAA E	GAG E	
GAT CTG GCA GCA AAT GAT ATC C D L A A N D I					CTG L	Flag.Tag TG GAT TAC AAG GAT GA L D Y K D D					AC GAC GAT A			Pme I		ACGGCCGGC		

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

ACCN: NM_005519

ORF Size: 819 bp

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 005519.1</u>, <u>NP 005510.1</u>

RefSeq Size: 1628 bp RefSeq ORF: 822 bp

 Locus ID:
 3167

 UniProt ID:
 A2RU54

 Cytogenetics:
 10q26.13

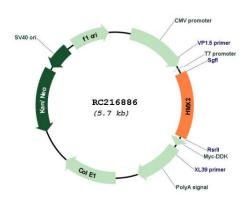
 MW:
 29.4 kDa

Gene Summary: The protein encoded by this gene is a member of the NKL homeobox family of transcription

factors. Members in this family are of ancient origin and play an important role in organ development during embryogenesis. A related mouse protein plays a role in patterning of inner ear structures. In humans, variations in a region containing this gene have been associated with inner ear malformations, vestibular dysfunction, and hearing loss. [provided

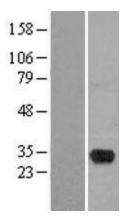
by RefSeq, Aug 2012]

Product images:



Circular map for RC216886





Western blot validation of overexpression lysate (Cat# [LY401694]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216886 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).