

Product datasheet for **MR208762**

Has2 (NM_008216) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Has2 (NM_008216) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Has2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208762 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATTGTGAGAGGTTTCTATGTGTCCTGAGAATAATTGGAACACTTTTTGGAGTGTCTCTCCTCC
 TCGGAATCACAGCTGCTTATATTGTTGGCTACCAAGTTTATCCAAACAGATAAATACTACTTCTCATTGG
 ACTGTACGGTGCCTTTTTAGCCTCGCATCTCATATCCAAAGCCTCTTTGCCTTTTTGGAACACCGGAAA
 ATGAAGAAGTCCCTTGAACCCCGATTAATTGAACAAAACGGTAGCACTCTGCATCGTGCCTACCAAG
 AGGACCTGACTACTTACGGAAATGTTTGAATCTGTGAAAAGGCTGACCTACCTGGGATTAAAGTCGT
 GATGGTCATCGATGGAACTCAGACGACACCTTTACATGATGGACATATTCAGCGAAGTTATGGCAGG
 GACAAATCGGCCACGTACATCTGGAAGAACAATTTTCATGAAAAGGACCTGGTGGAGACAGAAGAGTCCC
 ATAAAGAAAGTTCACAACATGTCACCCAATTGGTCTTGTCTAACAAAAGTATTTGCATCATGCAAAAATG
 GGGTGGAAAGAGAGAAGTCATGTACACAGCCTTCAGAGCACTGGGCGAAGCGTGGATTATGTACAGGTG
 TGTGACTCAGATACTATGCTTGACCCTGCCTCATCTGTGGAGATGGTGAAGGTCTTAGAGGAAGACCCTA
 TGGTTGGAGGTGTTGGAGGAGATGTCCAGATTTTAAACAAGTATGATTCCTGGATCTCCTCCTCAGCAG
 CGTGAGATACTGGATGGCTTTTAAATATAGAAAAGGCGCTGCCAGTCTTATTTGGCTGTGTCCAGTGCATA
 AGCGGTCTCTGGGAATGTACAGAACTCCTTGCTGCATGAATTTGTGGAAGACTGGTACAATCAGGAAT
 TCATGGGTAACCAATGCAGTTTTGGTGACGACAGGCACCTTACCAACAGGGTGTGAGTCTGGGCTATGC
 AACTAAATACACGGCTCGGTCCAAGTGCCTTACTGAACTCCCATAGAATATCTGAGATGGCTGAACCAG
 CAGACCCGTTGGAGCAAGTCTACTTCCGAGAGTGGCTGTACAATGCCATGTGGTTTACAAGCATCACT
 TGTGGATGACCTATGAAGCTGTTATCACTGGATCTTTCTTTCTTTCTCATTGCCACAGTCACTCCAGCT
 CTCTACAGGGTAAAATCTGGAACATCCTCCTCTTCTGTAACTGTCCAGCTAGTGGTCTCATCAAG
 TCATCTTTTGCCAGTGCCTTAGAGGAAATATCGTCATGGTATTCATGTCTCTGTATTCACTGTTATACA
 TGTCAAGTCTACTTCTGCCAAGATGTTTGAATTTGCAACATAAACAAGCTGGGTGGGCACATCTGG
 AAGGAAGACCATTGTTGTTAATTTTATAGGACTTATTCCAGTGTCCGTGTGGTTTACAATCCTTCTAGGT
 GGTGTAATTTTACCATTATAAGGAATCTAAAAAGCCATTTCCGAATCCAAACAGACTGTTCTCATCG
 TGGAACTTTGATCTATGCATGCTACTGGGTGATGCTTTTACTCTCTATGTGGTTCTCATCAATAAGTG
 TGGCAGGCGGAAGAAGGGACAACAGTATGACATGGTGTGATGTA

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR208762 protein sequence
 Red=Cloning site Green=Tags(s)

MHCERFLCVLRIIGTTLFGVSLLLGITAAAYIVGYQFIQTDNYYFSFGLYGAFLASHLIIQSLFAFLEHRK
 MKKSLETPIKLNKTVALCIAAYQEDPDYLRKCLQSVKRLTYPGIKVVMMIDGNSDDDLVMMDFSEVMGR
 DKSATYIWKNFHEKGPGETEESHKESQHVTVLVLVSNKSICIMQKWGGKREVMYAFRALGRSDVYVQV
 CSDTMLDPASSVEMVKVLEEDPMVGGVGGDVQILNKYDSWISFLSSVRYWMAFNIERACQSYFGCVQCI
 SGPLGMYRNSLLHEFVEDWYNQEFMGNQCSFGDDRHLNTRVLSLGYATKYTARSKCLTETPIEYLRWLNQ
 QTRWSKSYFREWLYNAMWFHKHLLWMTYEAVITGFFPFLIATVIQLFYRGIWNILLFLLTVQLVGLIK
 SSFASCLRGNIVMVFMSLYSVLYMSSLLPAKMFAIATINKAGWGTSGRKTIVVNFVIGLIPVSVWFTILLG
 GVIFTIYKESKPPFSESKQTVLIVGTLIYACYWMLLTLVYVVLINCGRRKKKQQYDMVLDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008216

ORF Size: 1659 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

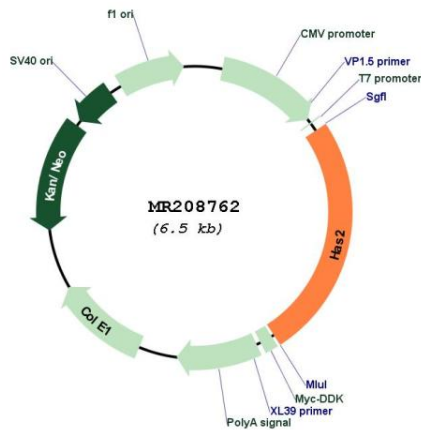
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: [NM_008216.3, NP_032242.3](#)
RefSeq Size: 4262 bp
RefSeq ORF: 1659 bp
Locus ID: 15117
UniProt ID: [P70312](#)
Cytogenetics: 15 23.31 cM
MW: 63.5 kDa

Gene Summary: Catalyzes the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer. Therefore, it is essential to hyaluronan synthesis a major component of most extracellular matrices that has a structural role in tissues architectures and regulates cell adhesion, migration and differentiation. This is one of the isozymes catalyzing that reaction and it is particularly responsible for the synthesis of high molecular mass hyaluronan. Required for the transition of endocardial cushion cells into mesenchymal cells, a process crucial for heart development. May also play a role in vasculogenesis. High molecular mass hyaluronan also play a role in early contact inhibition a process which stops cell growth when cells come into contact with each other or the extracellular matrix.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208762