

## Product datasheet for **RN209773**

### Has2 (NM\_013153) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Has2 (NM_013153) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Has2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN209773 representing NM\_013153  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCATTGTGAGAGGTTTCTATGTGTCCTGAGAATAATCGGAACACACTGTTTGGAGTGTCTCTCCTCC  
TCGGAATCACAGCTGCTTATATTGTTGGCTACCGTTTATCCAAACAGATAAATTACTATTTCTCCTTTGG  
GCTGTATGGTGCCTTTTTAGCCTCACACCTCATCATCCAAAGCCTCTTTGCCTTTTTGGAACACCGGAAA  
ATGAAAAAGTCCCTTGAACCCCATTAATTTGAACAAAAGTGTAGCTCTCTGCATTGCTGCGTATCAAG  
AAGACCTGACTACTTACGGAAATGTTTGAATCTGTGAAAAGGCTGACCTACCTGGGATCAAAGTCGT  
GATGGTCATAGATGGAATTCAGATGACGACCTTACATGATGGACATCTTCAGTGAAGTCATGGCAGG  
GACAAATCAGTCATTACATCTGGAAGAACAATTCATGAAAGGGGACCTGGTGAACAGAGAGTCCC  
ATAAAGAAAGTTCGCAACATGTAACCAATTGGTCTTGCTAACAAGAGTATTTGCATCATGCAAAAATG  
GGGTGGAAGAGAGAAGTCATGTACACCGCCTTCAGAGCACTGGGCAGAAGCGTGGATTATGTACAGGTG  
TGTGACTCAGACACCATGCTTGACCCTGCCTCGTCTGTGGAGATGGTGAAGGTCTTAGAAGAAGACCCGA  
TGTTGGAGGTGTTGGGGGAGATGTTTACAGATTTAAACAAGTATGATTCTTGGATCTCCTCCTCAGCAG  
TGTGAGATACTGGATGGCTTTTAAATATAGAAAGGGCCTGCCAGTCTTATTTGGCTGTGTCCAGTGCATA  
AGCGGTCTCTGGGAATGTACAGAACTCCTTGTGATGAGTTTGTGGAAGACTGGTACAATCAGGAAT  
TCATGGGTAACCAATGCAGTTTCGGTGATGATAGGCACCTTACCAACAGGGTACTGAGTCTGGGCTATGC  
AACTAAATACACGGCTCGGTCCAAGTGCCTTACTGAAACCCATAGAATATCTGAGATGGCTGAACCAG  
CAGACCGTTGGAGCAAGTCTACTTCCGAGAGTGGCTATACAATGCCATGTGGTTTACAAGCATCACT  
TGTGGATGACCTACGAAGCTGTTATCACTGGATTCTTTCTTTCTTTCTCATTGCCACAGTCCAGCT  
CTTCTACAGGGTAAAATCTGGAACATCCTCCTTCTGTTAACTGTCCAGCTAGTGGGTCTCATCAAG  
TCGTCTTTCGCCAGCTGCCTTAGAGGAAATATCGTCATGGTCTTCATGTCTCTACTCAGTGTGTACA  
TGTCAAGTCTACTTCTGCCAAGATGTTTGAATTTGCAACATAAACAAGCTGGGTGGGCACATCTGG  
AAGGAAAACCATTTGTCGTTAATTTTATAGGACTTATTCCAGTGTCCGTGTGGTTTACAATCCTTCTAGGT  
GGTGTGATTTTACCATTATAAGGAATCTAAAAGCCATTTCCGAATCCAACAGACTGTTCTCATTG  
TGGAACCTTGATCTATGCGTGTACTGGGTCGTGCTTTGACTCTGTATGTGGTTCTCATCAATAAGTG  
TGGCAGGCGGAAGAAGGGACAACAGTACGACATGGTCTTGATGTATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja2337\\_d02.zip](https://cdn.origene.com/chromatograms/ja2337_d02.zip)

Restriction Sites: SgfI-MluI

ACCN: NM\_013153

Insert 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_013153.1](#), [NP\\_037285.1](#)

**RefSeq Size:** 4172 bp

**RefSeq ORF:** 1659 bp

**Locus ID:** 25694

**UniProt ID:** [O35776](#)

**Cytogenetics:** 7q33

**Gene Summary:** membrane protein that synthesizes hyaluronan, a high molecular weight polysaccharide that is a component of the extracellular matrix; may be important for epidermal proliferation, thickness and differentiation [RGD, Feb 2006]