

Product datasheet for **RR201313**

Has1 (NM_172323) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Has1 (NM_172323) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Has1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201313 representing NM_172323
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGACAGGACATGCCAAAGCCCTCAGAGGCAGCACGTTGCTGCTCCGGTCTGCCAGGCGGGTGCTCA
 CGATCACCTTCGCCCTGCTCATCCTGGGCCTCATGACCTGGGCCTACGCAGCAGGAGTACCTCTGGCTTC
 TGATCCCTATGGCCTCCTGGCCTTTGGGCTCTATGGGGCTTCTCAGTGCACACCTAGTGGCACAGAGC
 CTCTTCGCTTACCTGGAGCACCGAAGGGTGACCGTGGCTGCGCGCGCGCTTTTGCGAAGGGACCCCTGG
 ATGCGGCCACTGCGCGCAGCGTGGCACTCACCATCTCAGCCTACCAGGAGGACCCCACTTACCTGCGCCA
 GTGCTTGACCTCCGCGCGCGCTTGTGTACCCGCGCACGCGGCTGCGCGTGCTTATGGTGTAGACGGC
 AATCGCGCGGAGGATCTGTACATGGTGGACATGTTCCGAGAAGTCTTCGAGATGAGGACCTGCCACTT
 ATGTGTGGGATGGCAACTACCATCAGCCTTGGGAGCCAGCTGAGGCGCGGGTGTGTGGTGAAGGTGC
 CTACCCGAGGTGAGGGCTGAGGACCTGGGCGGCTGGCGGTAGAGGCGTGGTGAAGACCCGAGGTGC
 GTGTGCGTGGCTCAGCGCTGGGGTGGCAAGCGCAAGTCATGTACACGGCTTTCAAGGCCTGGGTGACT
 CCGTGGACTACGTGCAGGTCTGTGACTCAGACACAAGGTTAGACCCCATGGCACTGCTGGAGCTTGTGCG
 AGTGTGGATGAAGACCCCGGGTAGGTGCTGTTGGAGGAGATGTGAGAACTCTTAACCCTCTGGACTCT
 TGGGTCAGCTTCTTGGAGCAGCTTCGATACTGGGTAGCCTTCAATGTGGAGCGAGCTTGTGAGAGCTACT
 TTCCTGTGTGCTCCTGCATCAGTGGTCTCTGGGTCTATACAGAAAACATCTCCTGCAGCAGTTCCTGGA
 GGCCTGGTACAACCAAGTTCCTGGGCACCCACTGCACATTTGGGGATGACAGGCACCTACCAACCCG
 ATGCTTAGCATGGGCTACGCTACCAAGTATACCTCGCGCTCCAGATGCTATTAGAGACGCCCTCCTCTT
 TCCTTCTGGTGGCTGAGCCAGCAGACCCGCTGGTCCAAATCTTATTTCCGAGAGTGGCTATACAACGCCCT
 GTGGTGGCACCCGCCACCACGCGTGGATGACCTATGAAGCGGTGGTTTCTGGCCTCTCCCTTTCTTGTG
 GCTGCCACGGTGTGAGGCTCTTCTATGCAGGGCGCCATGGGCTCTGCTCTGGGTGCTGCTCTGCGTGC
 AGGGCGTGGCACTGGCAAAGGCAGCCTTTGAGCCTGGCTGCGTGGCTGCCTGCGCATGGTGTGCTGCTGC
 ACTCTATGCACCACTCTACATGTGCGGCTGCTGCCTGCCAAGTTCCTGGCGTTGGTTACCATGAATCAA
 AGTGGTTGGGCACCTCGGGCCGAAGAACTGGCTGCTAACTATGTACCCGTGTGCCCTGGCACTCT
 GGGCTCTACTGCTGCTTGGAGGCTGATCCGAGTGTGGCCAGGAGTCAAGCTGACTGGAGTGGCC
 ATCAGGACAGCTGAAGCCTACCACCTTGTGCTGGGCGCAGTGCCTATGTGCCCTACTGGGTGATAATG
 TTGACTATCTATTGGGTAGGTGAAGGAGACTGTGCAGACGTCCGAGCGGTGGCTACCGTGTCCAAGTA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201313 representing NM_172323
 Red=Cloning site Green=Tags(s)

MRQDMPKPSEARCCSGLARRVLTITFALLILGLMTWAYAAGVPLASDPYGLLAFGLYGAFLSAHLVAQS
 LFAYLEHRRVTVAARRAFKGPLDAATARSVALTISAYQEDPTYLRQCLTSARALLYPRTRLRVLMMVVDG
 NRAEDLYMVMDFREVFADDPATYVWDGNYHQWPEAEAGAVGEGAYREVEAEDPGRLAVEALVRTRRC
 VCVAQRWGGKREVMYTAFAKALGDSVDYVQVCDSDTRLDPALLELVRLDEDPRVAVGGDVRILNPLDS
 WVSFLSSLRYWVAFNVERACQSYFHCVSCISGPLGLYRNNLLQQFLEAWYNQKFLGTHCTFGDDRHLTNR
 MLMSMGYATKYTSRRCYSETPSSFLRWLSQQTRWSKSYFREWLNALWHRHHAWMTYEAVVSGLFPFFV
 AATVLRIFYAGRPWALLWVLLCVQGVAKAAFAAWLRGCLRMVLLSLYAPLYMCGLLPAKFLALVTMNQ
 SGWGTSGRKKLAANYVPVPLALWALLLLGGLIRSVAQEVADWSGSPRAAEAYHLAAGASAYVAYWVIM
 LTIYWVGVRRLCRRRSGGYRVQV

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3804_d05.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_172323

ORF Size: 1749 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: [NM_172323.1](#), [NP_758826.1](#)

RefSeq Size: 2095 bp

RefSeq ORF: 1752 bp

Locus ID: 282821

Cytogenetics: 1q12

MW: 65.7 kDa

Gene Summary: one of three synthases which regulate the biosynthesis of hyaluronan [RGD, Feb 2006]