

Product datasheet for **MR220051**

Hyal4 (NM_029848) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hyal4 (NM_029848) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hyal4
Synonyms:	4632428M18Rik; CSHY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220051 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAACTATTGCCTGAAGGACAATTAAGACTCTGTGTTTTCAACCAGTACATCTTACATCGGGGCTGC
 TCATACTTTTATCCTGAAGTCTATCTCATCCCTAAAACCTGCCGACTTCCAGTTTATCAAAGGAAACC
 TTTTATTGCTGCTTGAATGCTCCAACAGACCTGTGTTTGATAAAAATAATTTAACACTGAACTTAAAA
 GTGTTTCAGATGGTTGGAAGCCCTCGGCTCAAAGACAGGGGGCAAATGTTGTTATATTTTATGCCAACA
 GATTGGGATATTACCATGGTATACATCAGAAGGGGTACCCATCAATGGTGGTCTCCCCAAAACACAAG
 CTTACAAGTACACCTGAAAAAGCTGCCAGGATTAATTATTACATCCCTTCTGAAAATTTAGTGGA
 CTTGCTGTATAGACTGGGAATATTGGCGCCACAGTGGGCCGGAAGTGAACACAAAGGATATCTACA
 GACAGAAGTCAAGAACTTTATTTCTGATATGAAAGAGAACATATCTGCTGCTGATATTGAATTCAGC
 CAAGGCAACTTTGAGAAAAGTCAAAAAGCTTTTATGGAGAACTATCAAATGGGAAGTAAGAGCAGA
 CCCAAGGGCCTTTGGGGTTATTATTTATATCCTGATTGCCACAATTATAATGTTTATGCCACAACTATA
 CTGGGTCTATGCCAGAAGAGGAAGTTTTGAGGAACAATGACCTCTCTGGCTCTGGAACAGCAGTACAGC
 CCTGTATCCTGCTGTGAGTATTAGGAAATCCTTTGCAGACAGTAAAAACTTTGCACTTCTCACGATTT
 CGGGTGCCTGAATCACTGAGGATTTCCACCATGACATCACAGGATTATGCTCTGCCTGTATTTGTCTACA
 CACAGCTGGGCTACAAAGAGGAACCTTTACTTTTCTTTCTAAGCAAGATCTAATTAGTACCATAGGAGA
 AAGTGTGCGTTGGGAGCGGCAGGCATTGTTGTTGGGAGACATGAATTTAACTTATCTGAGGAGAAC
 TGTACGAAAGTGAACCGCTTTGTAATTCTGATTTGGCAGCTACATAATCAATGTGACCAGAGCAGCTG
 AGGTGTGAGTGTGACCTTTGCAAGAATAATGGGAGGTGTGACGGAAGACATGGAAGCAGCTCATTG
 CCTCCATTTGAACCTGCAAGTTACCACATAGAGGCCTCTGAGGATGGAGAATTCATAGTGAAGGGAAGA
 GCATCAGACACTGACCTAGCTGTGATGGCAGAGAAATTCCTATGTCAGTGTATGAGGGATATGAGGGG
 CTGACTGTAGAGAAATGACAGAGGCCAGTGGCCCTCGGGGCTTTCCCTTCTCTAGCTGTGAATAAC
 ACTGTGCTGCTAGTTCTAGCAGGTTATCAAAGCATTAGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220051 protein sequence
 Red=Cloning site Green=Tags(s)

MQLLPEGQLRLCVFPVHLTSGLLILFILKSISSLKPARLPVYQRKPFIAAWNAPTDLCLIKYNLTNLK
 VFQMVGSPRLKDRGQNVVIFYANRLGYYPWYTSSEGVPIINGGLPQNTSLQVHLKAAQDINYYIPSENFSG
 LAVIDWEYWRPQWARNWNTKDIYRQSRSLISDMKENISAADIEYSAKATFEKSAKAFMEETIKLGSKSR
 PKGLWGYLYPDCHNYNYATNYTGSCPEEEVLRNNDLSWLWNSSTALYPAVSIRKSFADSENTLHFSRF
 RVRESLRISTMTSQDYALPVFVYTLGYKEEPLFLSKQDLISTIGESAALGAAGIVVWGDMMNLTSEEN
 CTKVNRVNSDFGSYIINVTRAAEVCSRHLCKNNGRCVRKTWKAHYLHLNPNASYHIEASEDGEFIVRGR
 ASDTDLAVMAENFLCHCYEGYEGADCREMTEASGPSGLSLSSSSVITLCLLVLAGYQSIQL

TRTRPLEQ**KL**I**SEEDLA**ND**ILDYK**DDDD**KV**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_029848

ORF Size: 1446 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.

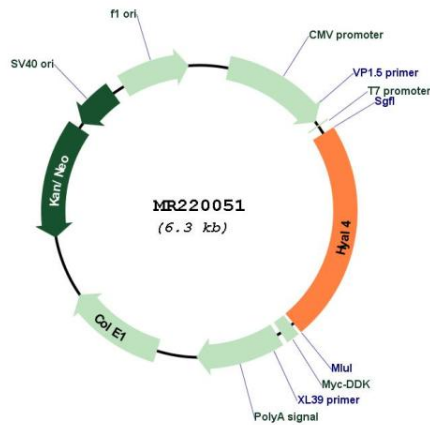
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_029848.1, NP_084124.1](#)
RefSeq Size: 2088 bp
RefSeq ORF: 1446 bp
Locus ID: 77042
UniProt ID: [Q05A56](#)
Cytogenetics: 6 A3.1
MW: 54.4 kDa

Gene Summary: Endo-hyaluronidase that degrades hyaluronan to smaller oligosaccharide fragments. Has also chondroitin sulfate hydrolase activity, The best substrate being the galactosaminidic linkage in the sequence of a trisulfated tetrasaccharide (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220051