

Product datasheet for MR206489

Hyal3 (NM_178020) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hyal3 (NM_178020) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hyal3
Synonyms:	Hyl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206489 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCATGCACCTAGGCCTAATGATGGTGGTGGGGTTAACCTGTGCCTGATGCATGGCCAAGCTTTGC
TGCAGGTTCTGAACATCCTTTTTCTGTGGTATGGAATGTACCCTCAGCAAGATGTAAGGCCATTTTGG
TGTGCATCTGCCTCTCGATGCCCTCGGCATTGTAGCCAACCACGGCCAACATTTTCACGGCCAAAACATC
TCCATCTTCTACAAGAACCAGTTTGGTCTTTATCCTTACTTTGGACCTAGAGGTACAGCCACAATGGGG
GAATCCCTCAGGCTGTGTCTTAGACCACCACTTGGCAGGAGCTGCCACCAGATCCTACACAGCCTAGG
ATCTAGCTTTGCTGGCTTGGCAGTGTGGACTGGGAAGAATGGTACCCACTCTGGGCTGGGAAGCTGGGGC
CCCCATCGACAAGTCTACCTGGCAGCCTCCTGGGTTTGGACACAGCAGATGTTCCCTGGCTTGGATCCTC
AGGAACAGCTCCACAAAGCCCACTAGCTTTGAGCAGGCTGCCCGTGCCTCATGGAATACACTCTGCA
GCTGGGCCGGACACTTCGCCGAGTGGCCTCTGGGGCTTTACAGATATCCAGCCTGTGGCAATGGCTGG
CATAAGATGGCTTCCAACACTACACAGGCCACTGCCATGCAGCCATCACCACCCAAAACACCAACTGCGTT
GGCTCTGGGCTGCCTCCAGTGTCTCTCCCTAGCATCTACCTCCCACCCAGACTGCCACTTGCCTACCG
TCAGGCCTTTGTCCGACACCCGCTGGAGGAAGCCTTCCGTGTAGCCCTTTTGGAGCATTCACATCCTCTA
CCTGTTCTGGCTTATTCTCGCCTCACACACCGGAGCTCTGGGAGATTCTGTCTCTGGACGACCTGATGC
AGACTATTGGAGTGAGTGCCGCACTGGGAACAGCTGGAGTGGTACTCTGGGGGGACCTGAGCTTCTCTAG
CTCTGAGGAAAAGTGTGGCGTCTCCATGACTACTTAGTGGGCACTTTAGGCCCTATGTGATCAATGTG
ACCAAGGCTGACATGGCTTGCAGTACCAGCGATGTCATGGCCATGGTCGATGTGCCCGAAAGACCCAG
GACAAATGGAAGCCTTTCTACATCTGCAGCCAGATGACAGTCTTGGAGCTTGAATTCTTCAGATGCCA
TTGTTATTCGGTTGGGCTGGCCCTACCTGCCTGGAGCCTAAACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206489 protein sequence
 Red=Cloning site Green=Tags(s)

MIMHLGLMMVVGLTLCLMHGQALLQVPEHPFSVVVNVPSARCKAHFGVHLPLDALGIVANHGQHFHGQNI
 SIFYKNQFGLYPYFGPRGTAHNGGIPQAVSLDHLARAHAHQILHSLGSSFAGLAVLDWEEWYPLWAGNWG
 PHRQVYLAASWVWTQMFPLDQPEQLHKAHTSFEQAARALMEYTLQLGRTL RPSGLWGFYRYPACGNGW
 HKMASNYTGHCHAAITTTQNTQLRWLWAASSALFPSIYLPRLPLAYRQAFVHRHLEEAFRVALLEHSHPL
 PVLAYSRLTHRSSGRFLSLDDLMTIGVSAALGTAGVVLWGDLSFSSSEKWCWRLHDYLVGTLGPVYINV
 TKADMACSHQRCHGHRCARKDPGQMEAFHLHLQPDDSLGAWNSFRCHCYSGWAGPTCLEPKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178020

ORF Size: 1239 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_178020.2](#), [NP_821139.1](#)

RefSeq Size: 1830 bp

RefSeq ORF: 1239 bp

Locus ID: 109685

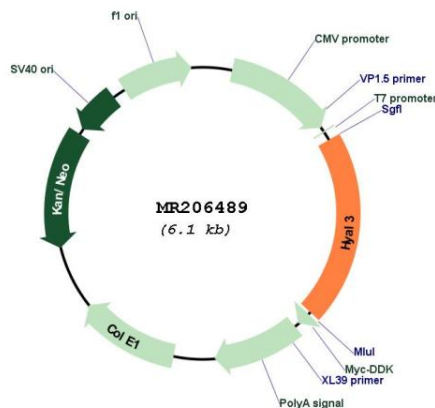
UniProt ID: [Q8VEI3](#)

Cytogenetics: 9 58.19 cM

MW: 46.1 kDa

Gene Summary: Facilitates sperm penetration into the layer of cumulus cells surrounding the egg by digesting hyaluronic acid. Involved in induction of the acrosome reaction in the sperm (PubMed:20586096). Involved in follicular atresia, the breakdown of immature ovarian follicles that are not selected to ovulate. Induces ovarian granulosa cell apoptosis, possibly via apoptotic signaling pathway involving CASP8 and CASP3 activation, and poly(ADP-ribose) polymerase (PARP) cleavage (PubMed:18653706). Has no hyaluronidase activity in embryonic fibroblasts in vitro (PubMed:18234732). Has no hyaluronidase activity in granulosa cells in vitro (PubMed:18653706).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206489