

Product datasheet for RC231784

HYAL3 (NM 001200032) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HYAL3 (NM_001200032) Human Tagged ORF Clone

Tag: Myc-DDK HYAL3 Symbol:

Synonyms: HYAL-3; LUCA-3; LUCA3 Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

>RC231784 representing NM_001200032 **ORF Nucleotide** Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTGCCACCTGCCCACCACCAGGCCTTTGTCCGACATCGCCTGGAGGAGGCCTTCCGTGTGGCCCTTG TTGGGCACCGACATCCCCTGCCTGTCCTGGCCTATGTCCGCCTCACACACCGGAGATCTGGGAGGTTCCT GTCCCAGGAGGAGTGCTGGCATCTCCATGACTACCTGGTGGACACCTTGGGCCCCTATGTGATCAATGTG ACCAGGGCAGCGATGGCCTGCAGTCACCAGCGGTGCCATGGCCACGGGCGCTGTGCCCGGCGAGATCCAG GACAGATGGAAGCCTTTCTACACCTGTGGCCAGACGGCAGCCTTGGAGATTGGAAGTCCTTCAGCTGCCA

CTGTTACTGGGGCTGGCCTGCCACCTGCCAGGAGCCCAGGCCTGGGCCTAAAGAAGCAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>RC231784 representing NM_001200032 **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MLPPAHHOAFVRHRLEEAFRVALVGHRHPLPVLAYVRLTHRRSGRFLSOEECWHLHDYLVDTLGPYVINV TRAAMACSHQRCHGHGRCARRDPGQMEAFLHLWPDGSLGDWKSFSCHCYWGWAGPTCQEPRPGPKEAV

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

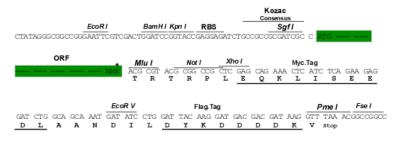
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



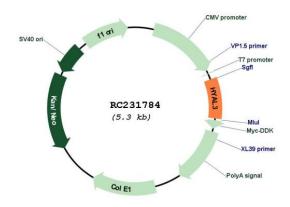
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001200032

ORF Size: 414 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



HYAL3 (NM_001200032) Human Tagged ORF Clone - RC231784

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: <u>NM 001200032.2</u>

 RefSeq Size:
 1089 bp

 RefSeq ORF:
 417 bp

 Locus ID:
 8372

 UniProt ID:
 043820

 Cytogenetics:
 3p21.31

Protein Families: Secreted Protein

Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways

MW: 16.3 kDa

Gene Summary: This gene encodes a member of the hyaluronidase family. Hyaluronidases are

endoglycosidase enzymes that degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. The regulated turnover of hyaluronan plays a critical role in many biological processes including cell proliferation, migration and differentiation. The encoded protein may also play an important role in sperm function. This gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression, and the expression of specific transcript variants may be indicative of tumor status. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and

some isoforms may lack hyaluronidase activity. This gene overlaps and is on the same strand as N-acetyltransferase 6 (GCN5-related), and some transcripts of each gene share a portion of

the first exon. [provided by RefSeq, Jan 2011]