

Product datasheet for RC203239

HYAL3 (NM_003549) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL3 (NM_003549) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HYAL3
Synonyms:	HYAL-3; LUCA-3; LUCA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203239 representing NM_003549 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACGCAACTGGGCCAGCCCTGGTGTGGGGTGGCCCTGTGCCTGGGTTGTGGCCAGCCCTAC
CACAGGTCCTGAACGCCCTTCTGTGCTGTGGAATGTACCCTCAGCACACTGTGAGGCCCGCTTTGG
TGTGCACCTGCCACTCAATGCTCTGGGCATCATAGCCAACCGTGGCCAGCATTTTCACGGTCAGAATG
ACCATTTCTACAAGAACCAACTCGGCCTATCCCTACTTTGGACCCAGGGGCACAGCTACAATGGGG
GCATCCCCAGGCTTTGCCCTTGACCGCCACCTGGCACTGGCTGCCTACCAGATCCACCACAGCCTGAG
ACCTGGCTTTGCTGGCCAGCAGTGTGGATTGGGAGGAGTGGTGTCCACTCTGGGCTGGGAAGTGGGGC
CGCCGCCGAGCTTATCAGGCAGCCTCTTGGGCTTGGGCACAGCAGGTATCCCTGACCTGGACCCTCAGG
AGCAGCTCTACAAGGCCTATACTGGCTTTGAGCAGGCGGCCCGTGCCTGATGGAGGATACGCTGCGGGT
GGCCAGGCACTACGGCCCCATGGACTCTGGGGCTTCTATCACTACCCAGCCTGTGGCAATGGCTGGCAT
AGTATGGCTTCCAATAACCGGCCGCTGCCATGCAGCCACCCTTGCCCGCAACTCAACTGCATTGGC
TCTGGGCCGCTCCAGTGCCTCTTCCCAGCATCTACCTCCCACCCAGGCTGCCACCTGCCACCACCA
GGCCTTTGTCCGACATCGCCTGGAGGAGCCTTCCGTGTGGCCCTTGTGGGCACCGACATCCCCTGCT
GTCCTGGCCTATGTCCGCTCACACCCGAGATCTGGGAGTTCTGTCCAGGATGACCTGTGCAGT
CCATTGGTGTGAGTGCAGCACTAGGGGCAGCCGCGTGGTGTCTGGGGGACCTGAGCCTTCCAGCTC
TGAGGAGGAGTGTGGCATCTCCATGACTACCTGGTGGACACCTTGGGCCCTATGTGATCAATGTGACC
AGGGCAGCGATGGCTGCAGTACCAGCGGTGCCATGGCCACGGGCGCTGTGCCGGCGAGATCCAGGAC
AGATGGAAGCCTTTCTACACCTGTGGCCAGACGGCAGCCTTGGAGATTGGAAGTCCTTCAGCTGCCACTG
TTACTGGGGCTGGGCTGGCCCCACCTGCCAGGAGCCAGGCTGGGCCTAAAGAAGCAGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203239 representing NM_003549
Red=Cloning site Green=Tags(s)

MTTQLGPALVLGVALCLGCGQLPQVPERPFSVLWNVPSAHCEARFGVHPLNALGIIANRGQHFHGQNM
 TIFYKNQLGLYPYFGPRGTAHNGGIPQALPLDRHLALAAYQIHHSLRPGFAGPAVLDWEEWCPLWAGNWG
 RRRAYQAASWAWAQVFPDLDPQEQLYKAYTGFEEQAARALMEDTLRVAQALRPHGLWGFYHYPCGNGWH
 SMASNYTGRCHAATLARNTQLHVLWAASSALFPSIYLPRLPPAHHQAFVRHRLLEAFRVALVGHHRHPLP
 VLAYVRLTHRRSGRFLSQDDLVSIGVSAALGAAGVVLWGDLSLSSSEEECWHLHDYLDVDTLGPYVINVT
 RAAMACSHQRCHGHGRCARRDPGQMEAFHLHLPDGLSLGDWKSFSCHCYWGWAGPTCQEPKPEAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8121_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_003549

ORF Size: 1251 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_003549.4](#)

RefSeq Size: 1945 bp

RefSeq ORF: 1254 bp

Locus ID: 8372

UniProt ID: [O43820](#)

Cytogenetics: 3p21.31

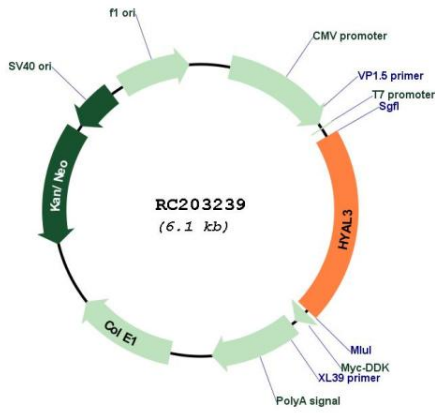
Protein Families: Secreted Protein

Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways

MW: 47 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]

Product images:



Circular map for RC203239