

## Product datasheet for RC232634

### HYAL3 (NM\_001200030) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL3 (NM_001200030) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HYAL3
Synonyms:	HYAL-3; LUCA-3; LUCA3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232634 representing NM_001200030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACCACGCAACTGGGCCAGCCCTGGTGTGGGGTGGCCCTGTGCCTGGGTTGTGGCCAGCCCCTAC  
CACAGGTCCTGAACGCCCTTCTGTGCTGTGGAATGTACCCTCAGCACACTGTGAGGCCCGCTTTGG  
TGTGCACCTGCCACTCAATGCTCTGGGCATCATAGCCAACCGTGGCCAGCATTTCACGGTCAGAATG  
ACCATTTTCTACAAGAACCAACTCGGCCTCTATCCCTACTTTGGACCCAGGGGCACAGCTACAATGGGG  
GCATCCCCAGGCTTTGCCCTTGACCGCCACCTGGCACTGGCTGCCTACCAGATCCACCACAGCCTGAG  
ACCTGGCTTTGCTGGCCAGCAGTGTGGATTGGGAGGAGTGGTGTCCACTCTGGGCTGGGAACTGGGGC  
CGCCGCCGAGCTTATCAGGCAGCCTCTTGGGCTTGGGCACAGCAGGTATCCCTGACCTGGACCCTCAGG  
AGCAGCTCTACAAGGCCATACTGGCTTTGAGCAGGCGGCCGTGCACTGATGGAGGATACGCTGCGGGT  
GGCCAGGCACACTCGGCCCATGGACTCTGGGGCTTCTATCACTACCCAGCCTGTGGCAATGGCTGGCAT  
AGTATGGCTTCCAATAACCGGCCGCTGCCATGCAGCCACCCCTGCCCGCAACACTCAACTGCATTGGC  
TCTGGGCCGCTCCAGTGCCTCTTCCCAGCATCTACCTCCCACCCAGGCTGCCACTGCCACCACCA  
GGCTTTGTCCGACATCGCTGGAGGAGCCTTCCGTGTGGCCCTTGTGGGCACCGACATCCCCCTGCCT  
GTCTGGCCTATGTCCGCTCACACACCCGAGATCTGGGAGGTTCTGTCCAGGAGGAGTGTGGCATT  
TCCATGACTACCTGGTGGACACCTTGGGCCCTATGTGATCAATGTGACCAGGGCAGCGATGGCCTGCAG  
TCACCAGCGGTGCCATGGCCACGGGCGCTGTGCCCGGCGAGATCCAGGACAGATGGAAGCCTTTCTACAC  
CTGTGGCCAGACGGCAGCCTTGGAGATTGGAAGTCCTTCAGCTGCCACTGTACTGGGGCTGGGCTGGCC  
CCACTGCCAGGAGCCAGGCCCTGGCCATAAAGAAGCAGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232634 representing NM\_001200030  
Red=Cloning site Green=Tags(s)

MTTQLGPALVLGVALCLGCGQLPQVPERPFSVLWNVPSAHCEARFGVHLPLNALGIIANRGQHFHGQNM  
 TIFYKNQLGLYPYFGPRGTAHNGGIPQALPLDRHLALAAAYQIHHSRLRPGFAGPAVLDWEEWCPLWAGNWW  
 RRRAYQAASWAWAQVFPDLDPQEQLYKAYTGFEEQAARALMEDTLRVAQALRPHGLWGFYHPACGNGWH  
 SMASNYTGRCHAATLARNTQLHVLWAASSALFPSIYLPRLPPAHHQAFVRHRLEEAFRVALVGHHRHPLP  
 VLAYVRLTHRRSGRFLSQEECWHLHDYLVDTLGPYVINVTRAAMACSHQRCHGHGRCARRDPGQMEAFLLH  
 LWPDGSLGDWKSFSCHCYWGAGPTCQEPRPGPKEAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

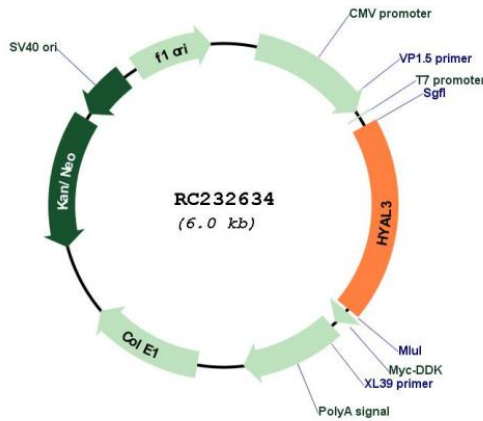
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001200030

<b>ORF Size:</b>	1161 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001200030.2</a>
<b>RefSeq Size:</b>	1855 bp
<b>RefSeq ORF:</b>	1164 bp
<b>Locus ID:</b>	8372
<b>UniProt ID:</b>	<a href="#">O43820</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Glycosaminoglycan degradation, Metabolic pathways
<b>MW:</b>	44.1 kDa
<b>Gene Summary:</b>	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]