

Product datasheet for **SC122660**

HYAL3 (NM_003549) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL3 (NM_003549) Human Untagged Clone
Tag:	Tag Free
Symbol:	HYAL3
Synonyms:	HYAL-3; LUCA-3; LUCA3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003549 edited
 GGCTGATGCAGGTTTCCATCCTTGGGGAATGACCACGCAACTGGGCCAGCCCTGGTGTCT
 GGGGGTGGCCCTGTGCCTGGGTTGTGGCCAGCCCTACCACAGGTCCTGAACGCCCTT
 CTCTGTGCTGTGGAATGTACCCTCAGCACACTGTGAGGCCGCTTTGGTGTGCACCTGCC
 ACTCAATGCTCTGGGCATCATAGCCAACCGTGGCCAGCATTTTACGGTCAGAACATGAC
 CATTTTCTACAAGAACCAACTCGGCCTATCCCTACTTTGACCAGGGGCACAGCTCA
 CAATGGGGGCATCCCCAGGCTTTGCCCTTGACCACCTGGCACTGGCTGCTACCA
 GATCTACCACAGCCTGAGACCTGGCTTTGCTGGCCAGCAGTGTGGATTGGGAGGAGTG
 GTGTCCACTCTGGGCTGGGAACTGGGGCCGCCGAGCTTATCAGGCAGCCTCTTGGGC
 TTGGGCACAGCAGGTATCCCTGACCTGGACCCTCAGGAGCAGCTCTACAAGGCCTATAC
 TGGCTTTGAGCAGGCGCCCGTGCCTGATGGAGGATACGCTGCGGGTGGCCAGGCACT
 ACGGCCCATGGACTCTGGGGCTTCTACTACCAGCCTGTGGCAATGGCTGGCATAG
 TATGGCTTCCAATAACCGGCCGCTGCCATGCAGCCACCCTTGGCCGCAACTCAACT
 GCATTGGCTCTGGGCCGCTCCAGTGCCCTTCCCCAGCATCTACCTCCCACCCAGGCT
 GCCACCTGCCACCAGGCTTTGTCCGACATCGCCTGGAGGAGGCTTCCGTGTGGC
 CCTTGTGGGCACCGACATCCCCGCTGTCTGGCCTATGTCCGCTCACACACCGGAG
 ATCTGGGAGGTTCTGTCCCAGGATGACCTTGTGCAGTCCATTGGTGTGAGTGCAGCACT
 AGGGGCAGCCGGCGTGGTGTCTGGGGGACCTGAGCCTCTCCAGCTCTGAGGAGGAGTG
 CTGGCATCTCCATGACTACCTGGTGGACACCTTGGGCCCTATGTGATCAATGTGACCAG
 GGCAGCGATGGCTGCAGTACCAGCGGTGCCATGGCCACGGGCGCTGTGCCCGGCGAGA
 TCCAGGACAGATGGAAGCCTTTTACACCTGTGGCCAGACGGCAGCCTTGGAGATTGGAA
 GTCCTTACAGTGCCTGTTACTGGGGCTGGGCTGGCCCACTGCCAGGAGCCAGGCC
 TGGGCCTAAAGAAGCAGTATAAAGCCAGGGCCCTGCCACTGCTTCTTTTCCCTGCT
 GCCACTTTTCCAGTCTGGAACCTACTCTGTCCCACTCTTGTCTATTTCAGTTTACAGTCA
 ACCCTCCAAGCACACACCCCGCTTCCCTTGAATCCCTGAGGGGTAGAAGGGGCCAGAA
 AAAACGCTTATAAAAACCAGAGGCCCTCTGAGATCATGTGAGTCCCTCCATGGCAAGGAAGC
 AGTTCCAGGGAGAGTCAGGTTCCAGCTAGTTAGGGCTGCCAGCCTAGGGCTTTGTGCCTA
 CACCTACTAAGCCCATGGAGAGGTCACAGATGGGCCGTGCACGGGCAGATGGGCCCAA
 AAAATCTTGGCGAAGGTCGGTAAAGTGCTAAGCTGTTGTCTGCACTCTTTCATCATAAAG
 TCACTTTTTTCCACTGAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003549 unedited
 TCAAATATTTGTATACGACTCACTATAGGGCGGCCGGAATCCCGGGNAATCGTCGACC
 CACGCGTCCGGGTGATGCAGGTTTCCATCCTTGGGGAATGACCACGCAACTGGGCCAG
 CCCTGGTGTGGGGTGGCCCTGTGCCTGGGTTGTGGCCAGCCCTACCACAGGTCCTGT
 AACGCCCTTCTCTGTGCTGTGGAATGTACCCTCAGCACACTGTGAGGCCGCTTTGGTG
 TGACCTGCCACTCAATGCTCTGGGCATCATAGCCAACCGTGGCCAGCATTTTACGGTC
 AGAACATGACCATTTTCTACAAGAACCAACTCGGCCTTATCCCTACTTTGGACCCAGGG
 GCACAGCTCACAATGGGGCATCCCCAGGCTTTGCCCTTGACCGCCACCTGGCACTGG
 CTGCCTACCAGATCTACCACAGCCTGAGACCTGGCTTTGCTGGCCAGCAGTGTGGATT
 GGGAGGAGTGGTGTCCACTCTGGGCTGGGAACTGGGGCCGCCGAGCTTATCAGGCAG
 CCTTTGGGCTTGGGCACAGCAGGTATCCCTGACCTGGACCCTCAGGAGCAGCTCTACA
 AGGCCTATACTGGCTTTGAGCAGGCGCCCGTGCCTGATGGAGGATACGCTGCGGGTGG
 CCCAGGCACTACNGCCCATGGACTCTGGGGCTTCTACTACCAGCCTGTGGCAATG
 GCNTGCATAGTATGGCTTTCAACTATACCGGCCGCTNGCATGCAACCACCCTTGGCCGA
 CACTCAACTGCATTGGCTTTGGCCGGCCTCCATGCCCTTCTTCCAGCATCTACCTCCC
 ACCAGGCTGCCCCCTGCCACAACCAGCCTTTTGTCCACTTGCAGTGAAGAGAGCCTTC
 GTGTGGCCCTGTTGGGAAACGAACTCCCTGA

Restriction Sites: Please inquire
ACCN: NM_003549

Insert Size:	1711 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_003549.2 , NP_003540.2
RefSeq Size:	1942 bp
RefSeq ORF:	1254 bp
Locus ID:	8372
UniProt ID:	O43820
Cytogenetics:	3p21.31
Protein Families:	Secreted Protein
Protein Pathways:	Glycosaminoglycan degradation, Metabolic pathways
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1), also known as HYAL3-wt, represents the longest transcript and encodes the longest isoform (1). Both variants 1 and 5 encode the same protein.</p>