

## Product datasheet for **SC117754**

### **HYAL2 (NM\_003773) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HYAL2 (NM_003773) Human Untagged Clone
Tag:	Tag Free
Symbol:	HYAL2
Synonyms:	LUCA2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117754 sequence for NM\_003773 edited (data generated by NextGen Sequencing)

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ATGCGGGCAGGCCACGGCCCCACCGTTACATTGGCCCTGGTGGTGGCGGTGGCATGGGCC
ATGGAGCTCAAGCCCACAGCACCACCCATCTTCACTGGCCGGCCCTTTGTGGTAGCGTGG
GACGTGCCACACAGGACTGTGGCCACGCCTCAAGGTGCCACTGGACCTGAATGCCTTT
GATGTGCAGGCCCTCACCTAATGAGGGTTTTGTGAACCAGAATATTACCATCTTCTACCGC
GACCGTCTAGGCCTGTATCCACGCTTCGATTCTGCCGGAAGGTCTGTGCATGGTGGTGTG
CCACAGAATGTCAGCCTTTGGGCACACCCGGAAGATGCTGCAGAAACGTGTGGAGCACTAC
ATTGCGACACAGGAGTCTGCGGGGCTGGCGGTATCGACTGGGAGGACTGGCGACCTGTG
TGGGTGCGCAACTGGCAGGACAAAGATGTGTATCGCCGTTATCACGCCAGCTAGTGGCC
AGTCGTACCCTGACTGGCCTCCAGACCGCATAGTCAAACAGGCACAATATGAGTTTGAG
TTCGACAGCAGCAGTTCATGCTGGAGACTGCGTTATGTCAAGGCAGTGGCGCCCGG
CACCTCTGGGCTTCTACCTCTTCTGACTGCTACAATCATGATTATGTGCAGAACTGG
GAGAGCTACACAGGCCGCTGCCCTGATGTTGAGGTGGCCCGCAATGACCAGCTGGCCTGG
CTGTGGGCTGAGAGCACGCCCTTCCCGTCTGTCTACCTGGACGAGACTTGCTTCC
TCCCGCATGGCCGCAACTTTGTGAGCTTCCGTGTTCCAGGAGGCCCTTCGTGTGGCTCGC
ACCCACCATGCCAACCATGCACTCCCAGTCTACGTCTTACACGACCCACCTACAGCCGC
AGGCTCACGGGGCTTAGTGAGATGGACCTCATCTTACCATTGGCGAGAGTGGCGCCCTG
GGCGCAGCTGGTGTATCCTCTGGGGTACCGCGGGGTACACCACAAGCACGGAGACCTGC
CAGTACCTCAAAGATTACCTGACACGGCTGCTGGTCCCTACGTGGTCAATGTGTCTGG
GCCACCAATATTGCAGCCGGGCCAGTGGCCATGGCCATGGGCGCTGTGTGCGCCGCAAC
CCCAGTGCCAGTACCTTCTGCATCTCAGCACCAACAGTTCCGCCTAGTGCCTGGCCAT
GCACCTGGTGAACCCAGCTGCGACCTGTGGGGGAGCTCAGTTGGGCCGACATTGACCAC
TGCAGACACACTTCCGCTGCCAGTGTACTTGGGCTGGAGTGGTGGAGCAATGCCAGTGG
GACCATAGGCAGGCAGCTGGAGGTGCCAGCGAGGCCTGGGCTGGTCCCACCTCACCAGT
CTGCTGGCTCTGGCAGCCCTGGCCTTTACCTGGACCTTGTAG

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Clone variation with respect to NM\_003773.4  
52 t=>g

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_003773 unedited

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NGGTCGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGCGAGTTCC
TGAGCTGGTGCCAGGCAGGTGACACCTCCTGCAGCCCCAGCATGCGGGCAGGCCAGGC
CCCACCGTTACATTGGCCCTGGTGTGGCGGTGGCATGGGCCATGGAGCTCAAGCCCACA
GCACCACCCATCTTCACTGGCCGGCCCTTTGTGGTAGCGTGGGACGTGCCACACAGGAC
TGTGGCCACGCCTCAAGGTGCCACTGGACCTGAATGCCTTTGATGTGCAGGCCTCACCT
AATGAGGGTTTTGTGAACCAGAATATTACCATCTTCTACCGCGACCGTCTAGGCCTGTAT
CCACGCTTCGATTCTGCCGGAAGGTCTGTGCATGGTGGTGTGCCACAGAATGTCAGCCTT
TGGGCACACCCGGAAGATGCTGCAGAAACGTGTGGAGCACTACATTGCGACACAGGAGTCT
GCGGGGCTGGCGGTATCGACTGGGAGGACTGGCGACCTGTGTGGGTGCGCAACTGGCAG
GACAAAGATGTGTATCGCCGTTATCACGCCAGCTAGTGGCCAGTCGTACCCTGACTGG
CCTCCAGACCGCATAGTCAAACAGGCACAATATGAGNTTGTAGTTGCGAGCACAGCAGTT
CATGCTGGAGACTGCGTTATGTCAAGGCAGTGGCGCCCGGCACCTCTGGGGCTTCTA
CCTCTTCTGACTGCTACAATCATGNATTATGTGCAGAACTGGGAGAGCTACACAGGCC
GCTGCCCTGATGTTTGGAGGTGGCCCGCAATGACCAGCTGCCCTGGCTGTGGGCTGAGACA
CGGNCCTTCCCGTCTGTCTANCTGGACGAGACTTGTCTTCCGNCATGGCGCNA
CTTNGAGCC

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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003773 unedited AATTTTGGNACCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTGGTTTATG TTTAATTTACAAAAGAGACCCCAAAATAATAATAATAAACTATCTAGGGCAAGGGAG TAGGGTCAGGTCTCCCCAGCCAGCTGTACCCTCCTTCCCCTCTGGCAGGGAGAGAAGG GGCCTCCCAGGGACTTCCCCTCCCCTTAGAACAGGGGGTGCGAGCTGGTATGGATGCC CTCCTGGGCTTCTGGGGCTCTGCCACTCCAGACTCCAGTTTGTCCACCCCTGCAGG GTCCTACATGCCAAGAGAGCCCTTGTGGTAGAGGCCAGCTTGCTAGGCAGCTAGGCAGG AGACCCCTACAAGTCCAGGTAAGGCCAGGGCTGCCAGAGCCAGCAGACTGGTGAGGTG GGACCCAGCCAGGCCTCGTGGCACCTCCAGCTGCCTGCCTATGGTCCCACTGGCATTG CTCACCCTCCAGCCAAGTAGCACTGGCAGCGGAAGTGTGTCTGCAGGTGGTCAATGTC GGCCCACTGAGCTCCCCACAGGTGCGAGCTGGGGTTACCAGGTGCATGGCCAGGCAC TANGCGGAACTGTTGGTGTGAGATGCANGAAGTACTGGCACTGGGGTTGCGGGGCAC ACAGCGCCCATGGCCATGGCACTGGGCCCGGTGCAATAATGGGGTGGCCAGGGCACATT TGACCACCGTAGGGACCAGCAGCCGTGCAAGTAATCTTTGAGGGCCTGGCAAGCCTCCG GGCTTGGGGGGACCCCCGTAACCCCAAAGAAGACACCAGCTGGGCCCCAGGGCCGGACT CTCGCCATGGTANAGAAGGAGGCCCATCTACTAACCCTCGAACCTGCCGCTGTAAG GGGGCCGGGGAAAACCCAAACTGGGATGCCTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003773
<b>Insert Size:</b>	1830 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_003773.2</a></u> , <u><a href="#">NP_003764.3</a></u>
<b>RefSeq Size:</b>	1848 bp
<b>RefSeq ORF:</b>	1422 bp
<b>Locus ID:</b>	8692
<b>UniProt ID:</b>	<u><a href="#">Q12891</a></u>
<b>Cytogenetics:</b>	3p21.31
<b>Domains:</b>	Glyco_hydro_56
<b>Protein Families:</b>	Druggable Genome

**Protein Pathways:** Glycosaminoglycan degradation, Metabolic pathways

**Gene Summary:** This gene encodes a weak acid-active hyaluronidase. The encoded protein is similar in structure to other more active hyaluronidases. Hyaluronidases degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan and fragments of hyaluronan are thought to be involved in cell proliferation, migration and differentiation. Although it was previously thought to be a lysosomal hyaluronidase that is active at a pH below 4, the encoded protein is likely a GPI-anchored cell surface protein. This hyaluronidase serves as a receptor for the oncogenic virus Jaagsiekte sheep retrovirus. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. This gene encodes two alternatively spliced transcript variants which differ only in the 5' UTR. [provided by RefSeq, Mar 2010]  
Transcript Variant: This variant (1) represents the shorter transcript. Both variants 1 and 2 encode the same protein.