

## Product datasheet for **SC309152**

### HYAL1 (NM\_153281) Human Untagged Clone


#### Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL1 (NM_153281) Human Untagged Clone
Tag:	Tag Free
Symbol:	HYAL1
Synonyms:	HYAL-1; LUCA1; MPS9; NAT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309152 representing NM_153281. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCCACCTGCTCCCATCTGCGCCCTCTTCTGACCTTACTCGATATGGCCAAAGGCTTTAGG
GGCCCCCTTGCTACCCAACCGGCCCTTACCACCGTCTGGAATGCAAACACCCAGTGGTGCCTGGAGAGG
CACGGTGTGGACGTGGATGTCAGTGTCTTCGATGTGGTAGCCAACCCAGGGCAGACCTTCCGCGGCCCT
GACATGACAATTTTCTATAGCTCCAGCTGGGCACCTACCCTACTACACGCCACTGGGGAGCCTGTG
TTTGGTGGTCTGCCCCAGAATGCCAGCCTGATTGCCACCTGGCCCGCACATTCCAGGACATCCTGGCT
GCCATACCTGCTCCTGACTTCTCAGGGCTGGCAGTCATCGACTGGGAGGCATGGCGCCACGCTGGGCC
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CAGCTAGGGTGGCTGTGGGGCCAGAGCCGTGCCCTCTATCCCAGCATCTACATGCCCGCAGTGTGGAG
GGCACAGGAAGTCACAGATGTATGTGCAACACCGTGTGGCCGAGGCATTCCGTGTGGCTGTGGCTGCT
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TGTGTCCGCCGACACAGCCACCCAAAGCCCTCCTCCTTAACCCTGCCAGTTTCTCCATCCAGCTC
ACGCTGGTGGTGGGCCCTGAGCCTGCGGGGTGCCCTCACTTGAAGATCAGGCACAGATGGCTGTG
GAGTTCAAATGTCGATGCTACCTGGCTGGCAGGCACCGTGGTGTGAGCGGAAGAGCATGTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>Plasmid Map:</b>	
<b>ACCN:</b>	NM_153281
<b>Insert Size:</b>	1308 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_153281.1</a>
<b>RefSeq Size:</b>	2370 bp
<b>RefSeq ORF:</b>	1308 bp
<b>Locus ID:</b>	3373
<b>UniProt ID:</b>	<a href="#">Q12794</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Glycosaminoglycan degradation, Lysosome, Metabolic pathways
<b>MW:</b>	48.4 kDa

**Gene Summary:**

This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought to be involved in cell proliferation, migration and differentiation. This enzyme is active at an acidic pH and is the major hyaluronidase in plasma. Mutations in this gene are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (8) represents the longest transcript and encodes the longest isoform (1). Variants 7 and 8 both encode the same isoform (1).