

Product datasheet for SC109328

HYAL1 (NM_007312) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL1 (NM_007312) Human Untagged Clone
Tag:	Tag Free
Symbol:	HYAL1
Synonyms:	HYAL-1; LUCA1; MGC45987; NAT6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109328 sequence for NM_007312 edited (data generated by NextGen Sequencing)

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ATGGCAGCCCACCTGCTTCCCATCTGCGCCCTTCTCTGACCTTACTCGATATGGCCAA
GGCTTTAGGGGCCCTTGTACCCAACCGGCCCTTACCACCGTCTGGAATGCAAACACC
CAGTGGTGCCTGGAGAGGCACGGTGTGGACGTGGATGTCAGTGTCTTCGATGTGGTAGCC
AACCCAGGGCAGACCTTCCGCGGCCCTGACATGACAATTTCTATAGCTCCCAGCTGGGC
ACCTACCCTACTACACGCCCACTGGGGAGCCTGTGTTTGGTGGTCTGCCCCAGAATGCC
AGCCTGATTGCCACCTGGCCCGCACATTCCAGGACATCCTGGCTGCCATACCTGCTCCT
GACTTCTCAGGGCTGGCAGTCATCGACTGGGAGGCATGGCGCCACGCTGGCCCTCAAC
TGGGACACCAAGGACATTTACCGGCAGCGCTCACGGGCACTGGTACAGGCACAGCACCT
GATTGGCCAGCTCCTCAGGTGGAGGCAGTAGCCCAGGACCAGTTCAGGGAGCTGCACGG
GCCTGGATGGCAGGCACCTCCAGCTGGGGCGGGCACTGCGTCCCTCGCGGCTCTGGGGC
TTCTATGGCTTCCCTGACTGCTACAACATGACTTTCTAAGCCCCAACTACACCGGCCAG
TGCCCATCAGGCATCCGTGCCAAAATGACCAGCTAGGGTGGCTGTGGGGCCAGAGCCGT
GCCCTCTATCCCAGCATCTACATGCCCGCAGTGTGGAGGGCACAGGGAAGTCACAGATG
TATGTGCAACACCGTGTGGCCGAGGCATTCCGTGTGGCTGTGGCTGTGGTGACCCCAAT
CTGCCGGTGTGCCCTATGTCCAGATCTTCTATGACACGACAAACCACTTCTGCCCTG
TGGGTGAGCTGGGAAAATACAAGAACCAAGGAATCATGTCAGGCCATCAAGGAGTATATG
GACACTACACTGGGGCCCTTTCATCCTGAACGTGACCAGTGGGGCCCTTCTCTGCAGTCAA
GCCCTGTGCTCCGGCCATGGCCGCTGTGTCCGCCACCAAGCCACCCCAAGCCCTCCTC
CTCCTTAACCCTGCCAGTTTCTCCATCCAGCTCACGCCTGGTGGTGGGCCCTGAGCCTG
CGGGGTGCCCTCTCACTTGAAGATCAGGCACAGATGGCTGTGGAGTTCAAATGTCGATGC
TACCCTGGCTGGCAGGCACCGTGGTGTGAGCGGAAGAGCATGTGGTGA

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Clone variation with respect to NM_007312.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007312 unedited
 GGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGNAATGGCAGA
 GGCCTGGTCTGAGAGGCAACTCGGATGTGCCCTCCAGTGGCCATGCTCCCCTCCATGCCT
 CTCCCCTGCCCTCCTGGAGCCCTGCAGGTCAATGTTTAAACAGAAACCAGAGCAGCGGTGG
 ATTAATGCGCAAGGGCTCAGCCCCCAGCCCTGAGCAGTGGGGGAATCGGAGACTTTGCA
 ACCTGTTCTCAGCTCTGCCTCCCCTGGCCAGGTTGTCTCGACCAGTCCCGTGCCATGGC
 AGCCCCACTGCTCCCCTGCGCCCTCTTCTGACCTTACTCGATATGGCCCAAGGCTT
 TAGGGGGCCCTTGTACCCAACCGGCCCTTCAACCACCGTCTGGAATGCAAACACCCAGTG
 GTGCCTGGAGAGGCACGGTGTGGACGTGGATGTAGTGTCTTCGATGTGGTAGCCAAACC
 AGGGCAGACCTTCCGCGGCCCTGACATGACAATTTTCTATAGCTCCCAGCTGGGCACCTA
 CCCCTACTACACGCCACTGGGGAGCCTGTGTTTGGTGGTCTGCCCCAGAATGCCAGCCT
 GATTGCCACCTGGCCGCACATTCCAGGACATCCTGGCTGCCATACCTGCTCCTGACTT
 CTCAGGGTGGCAGTCATCGACTGGGAGGCATGGCGCCACGCTGGGCCTTCAACTGGGA
 CACCAAGGACATTTACCGCAGCGCTCACGGGCACTGGTACAGGCACAGCACCCCTGATTG
 GCCAGCTCCCTCAGTGGAGGCAGTAGCCAGAACCAGTTCAGGGAGCTGCACGGGCCTG
 GATGGCANGCACCTCCAGCTGGGGCGGGCACTGCGTCTCGCGGCTCTGGGGCTCTA
 TGGCTTNCCTGACTGCTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007312 unedited
 NTACTIONNACC GCGGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TAAATACATGACTGCTTTATTTGCTGGACTGGTGCCTCTCAGCAGATTCAGGGGTCGTG
 CAGGGCTGGTTACCACAACTCAGTAGGAGTGCAAGGGCTGTACCCCGGAGCTAGACAG
 CCTGGGTTTGAATCTCAACTTCTCCCTTTTCTTGCTGTGCAACCTTGGGCAACGTGCTTA
 CTCTCAATGTGAGTGACTCAGTTTCTCATAGCCTCATTGTGAGGAATGAATAAGTCCAC
 ATAAAACGCTTAGCACGGGATTGGCAAAGAGTAGGCACTCAGTGAATGTCAGCCTTTGT
 GATTGCTGCAGTTCAAAGACTGGCTCAGTGTCTCTGGAGGAATTGTCTATGACCTTGCCA
 AGTAGATGCATATGGACATGGAATGAATGGTGTCTGCTGTGGTTCTAACTCCTTATGCCA
 CTATCCAGTCTGTAAGTATGCATGTGTGTGCAGGGAATATGCCTGTGACAGTGGCTGAG
 TGACTCTTTACTGTGACCATGACTTGTATGACTGTGCATGTATTTGAGGAAGCCCTGGC
 CAGACCCAGAGTGCAATTAGTTTCTCAATATGTGCAACTCAGTGTGTGGCCAATCACCACA
 TGCTCTTCCGCTCACACCAGGTGCCTGCCAGCCAGGGTAGCATCGACATTTGAACCCC
 AGCCATCTGTGCCTGATCTTCAAGTGAGAGGGCACCCCGCAGGCTCAGGGGGCCACCAC
 CAGCGTGAGCTGGATGGANAACTGNCAGGNTAANGGAGAGGAGGNCTTTGNGGTGGCTG
 GTGNCGCGGCACAGCNCCATGGCCGNAGCACAGGCTTGACTGCANAAAGGNCCACTGN
 NTCACGTCAGGATGAGGGCCCCAGNGTANTGTCATAACTNNCTGATGCCTGAATGATNCC
 TGGTT

Restriction Sites:

NotI-NotI

ACCN:

NM_007312

Insert Size:

2210 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:

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_007312.3](#), [NP_009296.1](#)

RefSeq Size: 2518 bp

RefSeq ORF: 1308 bp

Locus ID: 3373

Cytogenetics: 3p21.31

Domains: Glyco_hydro_56

Protein Families: Secreted Protein

Protein Pathways: Glycosaminoglycan degradation, Lysosome, Metabolic pathways

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 (1) represents the longest transcript and encodes the longest isoform (1).