

Product datasheet for **SC115433**

HYAL4 (NM_012269) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL4 (NM_012269) Human Untagged Clone
Tag:	Tag Free
Symbol:	HYAL4
Synonyms:	CSHY; HYAL-4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115433 sequence for NM_012269 edited (data generated by NextGen Sequencing)

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ATGAAAGTATTATCTGAAGGACAGTTAAAGCTTTGTGTTGTTCAACCAGTACATCTCACT
TCATGGCTCCTTATATTTTTATTCTAAAGTCTATCTCTGTCTAAAACCTGCTCGACTT
CCAATTTATCAAAGGAAACCTTTTATAGCTGCTTGGAAATGCTCCAACAGATCAGTGTG
ATAAAAATAAATTAAGACTAAATTTGAAAATGTTTCTGTGATTGGAAGCCCACTGGCC
AAGGCCAGGGGGCAAAAATGTCACATATTTTTATGTCAACAGATTGGGATACTATCCGTGG
TATACATCACAAGGGTCCCATTAATGGAGGTCTCCACAGAACAAGTTTACAAGTA
CATCTGAAAAAGCTGACCAAGATTAATTATTACATCCTGCTGAAGATTTTCAGTGGA
CTTGCTGTTATAGATTGGGAATATTGGCGACCACAGTGGGCCCGAACTGGAACCAAAA
GATGTTTACAGACAGAAGTCAAGAAAGCTTATTTCCGATATGGGAAAGAATGTATCAGCT
ACCGATATTGAATATTTAGCCAAAGTGACCTTTGAAGAAAGTGCAAAAGCTTTCATGAAG
GAAACCATCAAATGGGAATTAAGAGCCGACCCAAAGGCCTTTGGGGTTATTTATATAT
CCTGATTGCCACAATTAAACGTTTATGCCCAAACACTCTGGGTGATGCCAGAAGAC
GAAGTCTTGAGGAACAATGAGCTCTCTGGCTCTGGAACAGCAGTCTGCTTTATATCCT
TCTATCGGTGCTGGAATCCCTTGGAGACAGTAAAACATTTTGGCCTTCTCCAAATTT
CGGGTGCATGAATCCATGAGGATCTCCACCATGACATCTCATGATTATGCTCTGCCTGTA
TTTGTCTACACAAGGCTAGGGTACAGAGATGAACCTTTATTTTCTTTCTAAGCAAGAT
CTAGTCAGCACCATAGGAGAAAGTGTGCTTGGGAGCTGCAGGCATTGTTATTTGGGGA
GACATGAATTTAACTGCATCCAAGGCCAAGTGTACAAAGGTGAAGCAGTTTGTGAGTTCT
GATTTAGGGAGCTACATAGCCAATGTGACCAGAGCTGCTGAGGTATGCAGCCTTCACCTC
TGCAGGAACAATGGCAGGTGCATAAGGAAGATGTGGAACGCGCCAGTTACCTTCACTTG
AACCTGCAAGTTACCACATAGAGGCCTCTGAGGACGGGGAGTTACTGTGAAAGGAAAA
GCATCTGATACAGACCTGGCAGTATGGCAGATACATTTTCTGTGATTGTTATCAGGGA
TATGAAGGAGCTGATTGCAGAGAAATAAAGACGGCTGATGGCTGCTCTGGGGTTCCCT
TCTCTGGTTCACTAATGACACTTTGTCTACTGCTTTTAGCAAGTTATCGAAGCATTGAG
TTGTGA
    
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Clone variation with respect to NM_012269.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_012269 unedited

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GGGGGGNNNNNNNCTTANNNNNNGGTTAAATTTGTATACAATTATATAGGCGGCCG
CGAAATTCGCACCAGCCCTCCACCTTCCCGCAAGCTGAGGGAGCCGGCTCTGGCCTTGG
CCAGTCCAGAAAGGGGCTCCACAGTGCAGCGCGGGCTGATGGGCTCTCAAGCGCGGC
CAGAGTGGGCGCAAGGCCGAGGAGGCCGAGAGCGAGGGCTGCGAGGACTGCCA
GCATGCTGCACCTCTCAATGTCAGTGCAGGAGAGGAAAGGATTCTTAGCTTGAGTTCAC
TCCAGTTGCCTAATGTCATGCCATTGCTCAAGCCCATGTGGCCTGTTTGAAGTCAGGTC
CCTCAGCTGCAGGTCTGTTGGAGTTTGTGGAGTCCATTCCAGACCTTGTACCTGGG
TATCACCAGCGGAGGCTGCAGAACCGAAGAAAATCAGGAATTTCTTCTGGTTTGGAGC
CATTGCTGGACATCCTTTGCCATTCAACCTCTGATTTGCACAAGGTGACTAAAGGACCAG
CAGCAAACAAAAGCAAAGGTCTTCTAGAGTGCCTAAAGCAGAAGATAACGTAACATTNT
TATCTTACCATGAAAGTATTATCTGAAGGACAGTTAAAGCTNTGTGTTGTTCAACCAGTA
CATCTCACTTCATGGCTCCTTATATNNTTATTCTAAAGNCTATCTTGTCTAAAACCT
GCTCGACTTCAAATTCANAGGGAACCTTNTATAGCTGCTTGGAAATGCTNNNCACAGA
TCAGTGTTTTGATAAAAATATATTTAAGACTAANNNTTGAATGNTTNCTGTGATGGAAGC
CCACTGGGCCAGGCCAGGGGCAAAATGTCACATATTTATGTCACAGATNGGAATCTATNC
GTGTATACATCACAAGGGTCCCATTAATGAGTCTCCACAGACATAGTTTAAAGTACTC
TGAAAAGCTGACAGATATTATATACTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_012269 unedited NNAACGTACAACATGNACCGCGCCGCAATCTATGATCGGTTTTTTTTTTTTTTTTTTGA AATGAAAATTTAATTTTTATGTATAATTTTATGTATGTACATTCATGAAAAGACTAAA TTATACTAGTTTTAGTTTAAATGCAACTTAAATATTCCAATAAGGAGGAAGTGACATTG ACTTTACCCCAATCTGGTTTCTAGCCAGACTGGAGGCAATAAAATAATGTTTCTGTT TATGTTAAGTGACATACATAATGTCTACTTATAATATCTCTCAATAGAATTCATAAGAGA AAAAAATGTTATAAGTTACATCCTTTTAAATGACTAGGCTAGAGGCCACACAATTCC CTTTAAACTCAATTATCTCACAACCTGAATGCTTCGATAACTTGCTAAAAGCAGTAGACAA AGTGTCATTAGTGAACCGAGGAGAAGGGGAAACCCAGAGCAGCCATCAGCCGCTTTATT TCTCTGCAATCAGCTCCTTCATATCCCTGATAACAATGACAGGAAAATGTATCTGCCATC ACTGCCAGGTCTGTATCAAATGCTTTTCTTTTACAGTAAACTCCCCGCTCCTCAGAGGCC TCTATGTGGTAACTTGCAGGGTTCAAGTGAAGGTAAGTGGGCGGTTCCACATCTTCCTT ATGCACCTGCCATTGTTCTGCAGAGGTGAAGGCTGCATACCTCAGCAGCTCTGGTCACA TTGGCTATGTAGCTCCCTAAATCAGAACTCACAACCTGCTTTCACTTTGTACAGTTGGCT TACCTTGGATGCAGTTAAATTCATGTCTCCCAATAACATGCCTGCAGCTCCCAAGCAG CACTTTCTCC
Restriction Sites:	NotI-NotI
ACCN:	NM_012269
Insert Size:	2500 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:	<u>NM_012269.1, NP_036401.1</u>
RefSeq Size:	2414 bp
RefSeq ORF:	1446 bp
Locus ID:	23553
UniProt ID:	<u>Q2M3T9</u>
Cytogenetics:	7q31.32
Domains:	Glyco_hydro_56
Protein Pathways:	Glycosaminoglycan degradation, Metabolic pathways

Gene Summary:

This gene encodes a protein which is similar in structure to hyaluronidases but lacks hyaluronidase activity. The encoded protein acts as a chondroitin-sulfate-specific endo-beta-N-acetylgalactosaminidase; that is, it exhibits hydrolytic activity toward chondroitin sulfate chains and degrades them into oligosaccharides. Proteoglycans are formed by the covalent linkage of chondroitin sulfate chains to protein. Proteoglycans are ubiquitous components of the extracellular matrix of connective tissues and are also found at the surface of many cell types where they participate in a variety of cellular processes such as cell proliferation, differentiation, migration, cell-cell recognition, extracellular matrix deposition, and tissue morphogenesis. The expression of this gene is highest in testes and placenta. [provided by RefSeq, Apr 2019]