

## Product datasheet for **SC212271**

### Hyaluronan synthase 2 (HAS2) (NM\_005328) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Hyaluronan synthase 2 (HAS2) (NM_005328) Human 3' UTR Clone
Symbol:	Hyaluronan synthase 2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_005328
Insert Size:	1123 bp
Insert Sequence:	>SC212271 3' UTR clone of NM_005328 The sequence shown below is from the reference sequence of NM_005328. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Red</b> =Cloning site <b>Blue</b> =Stop Codon

CAATTGGCAGAGCTCAGAATTCA**GCGATCGC**

AGGCGGAAGAAGGGACAACAATATGACATGGTGCTTGATGTAT**TGA**TCTTCCATGTTTTGACGTTTGCACT  
CACACACAACACCTTAGTTCCTCTAGGGGCTGTACAGTATTGTGGCATCAGATAATGCCACCAAAGGAGA  
CATATCACTGCTGCTGGGACTTGAACAAAGACATTTATATGGGTTTATTTTCATTCTGCCAAAGTAAAC  
AATACATCAACAAGAAGAACTCAGATTTAACCTGTTATTTCTATGAAAATGGGATGAATTCTTTGTTTA  
TGCACTTTTCTTACTGTGCATCCGCCTGAAAGTGTTTTGCCCTATATACCTCACTAGCCATGCTTTAT  
GTGGGTATCATGGAAGAAAAGGATTTTGGAACTCAAGGAAAAGTTCTTTCAACCTATACAACCTAACT  
TATGGACTGTTTTGATAGATGATAATTTTTTTTTTTAGGAAGGATTTCTTTTTAACTTTACCAAATGA  
AATGCCAAAGGAAGTTTTAAAGGCCGTTGGCTGTGCTGTATTTGATATAATTGTACTGTGTTTTAAAT  
TTTGTATGCCAATCTTAAAGACAAATTTGCATATTCTCTATTTTACTTTTCTGCCAAAATAAACCTGTT  
CTTCTTTTTTAAAATAAAATAAGTTCTTAAAAATTTATACTTAAAAATCCTGCCAAAATGTGAAGC  
TTGGTTGACTGATGTTTCATGATAGAAAGAATAAAATGTTTCTCTCTCTACCTTTTAAATGAATAGT  
TTATTTCTGTGAAAGAAGTATTTAACTTTCAATATTTTAACTTTTTGTTTTATTTCTTTTAGAAAAGG  
CCAATATACCTATCACACTTTGGAAGTAAAAATACACACTTTCGTGTGTACCTAAAAAAAATCGTTGA  
AAATCAAGGCCAAAGGTAGTGAATTTTTTCATTAAGATTTAAAAAAAAGGGAATGATAGTCTTTGAAAG  
AAAACAGTAGGCATCCAGCACTGGACAAAACATGGGTATCAAAGATGAATAATCTTTGGAGATTCTGGCA  
GTGTTTTCCAGAACAAGTCAAGTGAAAGTGGAGAAATTATCTGTATAATTTTGGACACATACAATGCA  
GTT

**ACGCGT**AAGCGGCCGCGCATCTAGATTCAAGAAAATGACCG

Restriction Sites: SgfI-MluI



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<a href="#">NM_005328.2</a>
<b>Summary:</b>	Hyaluronan or hyaluronic acid (HA) is a high molecular weight unbranched polysaccharide synthesized by a wide variety of organisms from bacteria to mammals, and is a constituent of the extracellular matrix. It consists of alternating glucuronic acid and N-acetylglucosamine residues that are linked by beta-1-3 and beta-1-4 glycosidic bonds. HA is synthesized by membrane-bound synthase at the inner surface of the plasma membrane, and the chains are extruded through pore-like structures into the extracellular space. It serves a variety of functions, including space filling, lubrication of joints, and provision of a matrix through which cells can migrate. HA is actively produced during wound healing and tissue repair to provide a framework for ingrowth of blood vessels and fibroblasts. Changes in the serum concentration of HA are associated with inflammatory and degenerative arthropathies such as rheumatoid arthritis. In addition, the interaction of HA with the leukocyte receptor CD44 is important in tissue-specific homing by leukocytes, and overexpression of HA receptors has been correlated with tumor metastasis. HAS2 is a member of the newly identified vertebrate gene family encoding putative hyaluronan synthases, and its amino acid sequence shows significant homology to glycosaminoglycan synthetase (DG42) from <i>Xenopus laevis</i> , and human and murine hyaluronan synthase 1. [provided by RefSeq, Jul 2008]
<b>Locus ID:</b>	3037