

## Product datasheet for **RG211151**

### **HYAL4 (NM\_012269) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HYAL4 (NM_012269) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HYAL4
Synonyms:	CSHY; HYAL-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211151 representing NM\_012269  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAGTATTATCTGAAGGACAGTTAAAGCTTTGTGTTGTTCAACCAGTACATCTCACTTCATGGCTCC  
 TTATATTTTTTATTCTAAAGTCTATCTCTGTCTAAAACCTGCTCGACTTCCAATTTATCAAAGGAAACC  
 TTTTATAGCTGCTTGAATGCTCCAACAGATCAGTGTGGATAAAATATAATTTAAGACTAAATTTGAAA  
 ATGTTTCTGTGATTGGAAGCCCACTGGCCAAGGCCAGGGGGCAAAATGCTACTATATTTTATGTCAACA  
 GATTGGGATACTATCCGTGGTATACATCACAAGGGTCCCATAATGGAGGTCTCCACAGAACAATAAG  
 TTTACAAGTACATCTGAAAAAGCTGACCAAGATTAATTATTACATCCCTGCTGAAGATTTTCAGTGGA  
 CTTGCTGTATAGATTGGAATATTGGCGACCACAGTGGCCCGGAAGTGAAGTCAAAGATGTTTACA  
 GACAGAAGTCAAGAAAGCTTATTTCCGATATGGGAAAGAATGTATCAGCTACCGATATTGAATTTAGC  
 CAAAGTGACCTTTGAAGAAAGTCAAAAGCTTTTATGAAGAAACCATCAAATTTGGAATTAAGAGCCGA  
 CCCAAAGGCCCTTTGGGGTTATTATTTATATCCTGATTGCCACAATTATAACGTTTATGCCCAAACACT  
 CTGGGTCTATGCCAGAAGACGAAGTCTTGAGGAACAATGAGTCTCTTGGCTCTGGAACAGCAGTCTGCT  
 TTTATATCCTTCTATCGGTGCTGGAAATCCCTTGGAGACAGTAAAAACATTTTGGCCTTCTCCAAATTT  
 CGGGTGCATGAATCCATGAGGATCTCCACCATGACATCTCATGATTATGCTCTGCCTGTATTTGTCTACA  
 CAAGGCTAGGGTACAGAGATGAACCTTTATTTTCTTTCTAAGCAAGATCTAGTCAGCACCATAGGAGA  
 AAGTGTGCCTTTGGGAGCTGCAGGCATTGTTATTTGGGAGACATGAATTTAACTTCATCCAAGGCCAAC  
 TGTACAAAGGTGAAGCAGTTTGTGAGTCTGATTTAGGGAGCTACATAGCCAATGTGACCAGAGCTGCTG  
 AGGTATGCAGCCTTCACCTCTGCAGGAACAATGGCAGTGCATAAGGAAGATGTGGAACGCCGCCAGTTA  
 CCTTCACTTGAACCTTGAAGTTACCACATAGAGGCCTCTGAGGACGGGGAGTTTACTGTGAAAGGAAAA  
 GCATCTGATACAGACCTGGCAGTATGGCAGATACATTTTCTGTATTGTTATCAGGGATTAAGGGAG  
 CTGATTGCAGAGAAATAAGACGGCTGATGGCTGCTCTGGGGTTTCCCCTTCTCCTGTTTACTAATGAC  
 ACTTTGTCTACTGCTTTTAGCAAGTTATCGAAGCATTGAGTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG211151 representing NM\_012269  
 Red=Cloning site Green=Tags(s)

MKVLSEGQLKLCVVQPVHLTSWLLIFFILKSIISCLKPARLPYQKPFIAAWNAPTDQCLIKYNLRLNLK  
 MFPVIGSPLAKARGQNVTFYVNRLLGYYPWYTSQGVPIINGGLPQNISLQVHLEKADQDINYIIPAEDFSG  
 LAVIDWEYWRPQWARNWNSKDVYRQKSRKLISDMGKNVSATDIEYLAKVTFEESAKAFMKETIKLGIKSR  
 PKGLWGYLYPDCHNYVYAPNYSGSCPEDEVLRRNELSWLWNSSAALYPSIGVWVSLGDSSENILRFSKF  
 RVHESMRISTMTSHDYALPVFVYTRLGYRDEPLFFLSKQDLVSTIGESAALGAAGIVIWGDMNLTSSKAN  
 CTKVKQFVSSDLGSYIANVTRAAEVCSLHLCRNNGRCIRKMNWAPSYLHLPASYHIEASEDGEFTVKKG  
 ASDTDLAVMADTFSCHCYQGYEGADCREIKTADGCSGVSPSPGSLMTLCLLLLASYRSIQL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_012269

ORF Size: 1443 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_012269.1](#), [NP\\_036401.1](#)

RefSeq Size: 2414 bp

RefSeq ORF: 1446 bp

Locus ID: 23553

UniProt ID: [Q2M3T9](#)

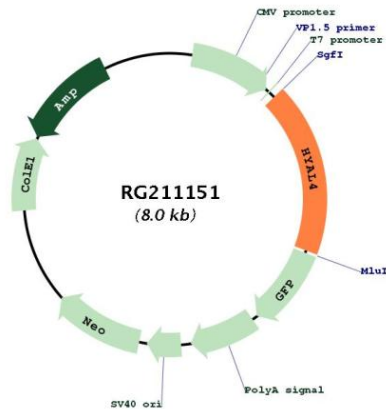
**Cytogenetics:** 7q31.32

**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]

**Product images:**



Circular map for RG211151