

## Product datasheet for **RG231784**

### HYAL3 (NM\_001200032) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HYAL3 (NM\_001200032) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** HYAL3  
**Synonyms:** HYAL-3; LUCA-3; LUCA3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231784 representing NM\_001200032  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCCACCTGCCACCACCAGGCCTTTGTCCGACATCGCCTGGAGGAGGCCTCCGTGTGGCCCTTG  
TTGGGCACCGACATCCCCTGCCTGTCTGGCCTATGTCCGCCTCACACACCGGAGATCTGGGAGGTTCT  
GTCCCAGGAGGAGTGCTGGCATCTCCATGACTACCTGGTGGACACCTGGGCCCTATGTGATCAATGTG  
ACCAGGGCAGCGATGGCCTGCAGTACCAGCGGTGCCATGGCCACGGGCGCTGTGCCCGGAGATCCAG  
GACAGATGGAAGCCTTTCTACACCTGTGGCCAGACGGCAGCCTTGAGATTGGAAGTCTTCAGCTGCCA  
CTGTTACTGGGGCTGGGCTGGCCCCACCTGCCAGGAGCCAGGCCTGGGCCTAAAGAAGCAGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231784 representing NM\_001200032  
Red=Cloning site Green=Tags(s)  
MLPPAHHQAFVHRLEEAFRVALVGHHRHPLPVLAYVRLTHRRSGRFLSQEECWHLHDYLVDTLGPYVINV  
TRAAMACSHQRCHGHRCARRDPQMEAFHLWPDGSLGDWKSFSCHCYWGAGPTCQEP RP GPKEAV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<u><a href="#">NM_001200032.2</a></u>
<b>RefSeq Size:</b>	1089 bp
<b>RefSeq ORF:</b>	417 bp
<b>Locus ID:</b>	8372
<b>UniProt ID:</b>	<u><a href="#">O43820</a></u>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Glycosaminoglycan degradation, Metabolic pathways
<b>Gene Summary:</b>	This gene encodes a member of the hyaluronidase family. Hyaluronidases are endoglycosidase enzymes that degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. The regulated turnover of hyaluronan plays a critical role in many biological processes including cell proliferation, migration and differentiation. The encoded protein may also play an important role in sperm function. This gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression, and the expression of specific transcript variants may be indicative of tumor status. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and some isoforms may lack hyaluronidase activity. This gene overlaps and is on the same strand as N-acetyltransferase 6 (GCN5-related), and some transcripts of each gene share a portion of the first exon. [provided by RefSeq, Jan 2011]