

Product datasheet for **RG231937**

HYAL3 (NM_001200031) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HYAL3 (NM_001200031) 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: >RG231937 representing NM_001200031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCACCTGCCACCACCAGGCCTTTGTCCGACATCGCCTGGAGGAGGCCTTCCGTGTGGCCCTTG
 TTGGGCACCGACATCCCCTGCCTGTCTGGCCTATGTCCGCTCACACACCGGAGATCTGGGAGGTTCT
 GTCCCAGGATGACCTTGTGCAGTCCATTGGTGTGAGTGCAGCACTAGGGGAGCCGGCGTGGTCTCTGG
 GGGACCTGAGCCTCTCCAGCTCTGAGGAGGAGTGTGGCATCTCCATGACTACCTGGTGGACACCTTGG
 GCCCTATGTGATCAATGTGACCAGGGCAGCGATGGCCTGCAGTACCAGCGGTGCCATGGCCACGGGCG
 CTGTGCCCGGCGAGATCCAGGACAGATGGAAGCCTTTCTACACCTGTGGCCAGACGGCAGCCTTGGAGAT
 TGGAAATCCTTACAGTGCCACTGTTACTGGGGCTGGGCTGGCCCCACCTGCCAGGAGCCAGGCCTGGGC
 CTAAGAAGCAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231937 representing NM_001200031
 Red=Cloning site Green=Tags(s)

MLPPAHHQAFVRRHLEEAFRVALVGHHRHLPVLAAYVRLTHRRSGRFLSQDDLVSIGVSAALGAAGVVLW
 GDLSLSSSEEECWHLHDYLVDTLGPYVINVTRAAMACSHQRCHGHGRARRDPGQMEAFHLHLPDGLSD
 WKSFSCHCYWGAGPTCQEPRPGPKEAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

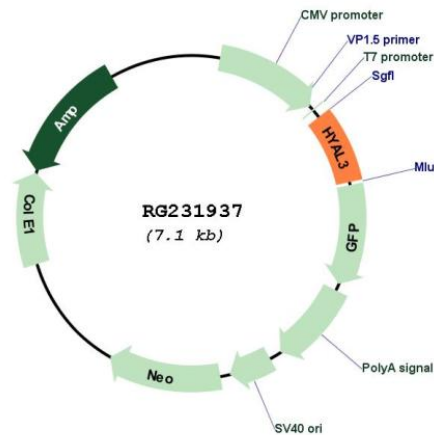


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001200031

ORF Size: 504 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:	<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_001200031.2</u>
RefSeq Size:	1179 bp
RefSeq ORF:	507 bp
Locus ID:	8372
UniProt ID:	<u>O43820</u>
Cytogenetics:	3p21.31
Protein Families:	Secreted Protein
Protein Pathways:	Glycosaminoglycan degradation, Metabolic pathways
Gene Summary:	<p>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]</p>