

## Product datasheet for **RG212549**

### HYAL1 (NM\_153281) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL1 (NM_153281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HYAL1
Synonyms:	HYAL-1; LUCA1; MPS9; NAT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212549 representing NM_153281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCCACCTGCTTCCCATCTGCGCCCTCTTCTGACCTTACTCGATATGGCCCAAGGCTTTAGGG  
GCCCTTGGCTACCCAACCGGCCCTTACCACCGTCTGGAATGCAAACACCCAGTGGTGCCTGGAGAGGCA  
CGGTGTGGACGTGGATGTCAGTGTCTTCGATGTGGTAGCCAACCCAGGGCAGACCTTCCGCGCCCTGAC  
ATGACAATTTTCTATAGCTCCAGCTGGGCACCTACCCCTACTACAGCCCACTGGGAGCCTGTGTTT  
GTGGTCTGCCCAAGAATGCCAGCCTGATTGCCACCTGGCCCGCACATCCAGGACATCCTGGCTGCCAT  
ACCTGCTCCTGACTTCTCAGGGCTGGCAGTCATCGACTGGGAGGCATGGCGCCACGCTGGGCCTTCAAC  
TGGGACACCAAGGACATTTACCGGCAGCGCTCACGGGCACTGGTACAGGCACAGCACCCCTGATTGGCCAG  
CTCCTCAGGTGGAGGCAGTAGCCAGGACCAGTTCCAGGGAGCTGCACGGGCTGGATGGCAGGCACCCCT  
CCAGCTGGGGCGGGCACTGCGTCTCGCGGCCCTTGGGGCTTCTATGGCTTCCCTGACTGCTACAATAT  
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GGCTGTGGGGCCAGAGCCGTGCCCTCTATCCCAGCATCTACATGCCCGCAGTGTGGAGGGCACAGGGAA  
GTCACAGATGTATGTGCAACACCGTGTGGCCGAGGCATCCGTGTGGCTGTGGCTGCTGGTGACCCCAAT  
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AAGAACCAAGGAATCATGTGAGGCCATCAAGGAGTATATGGACTACTACTGGGGCCCTTCACTCCTGAAC  
GTGACCAAGTGGGGCCCTTCTCTGAGTCAAGCCCTGTGCTCCGGCCATGGCCGCTGTGTCCGCCACCA  
GCCACCCCAAAGCCCTCCTCCTTAACCCTGCCAGTTTCTCCATCCAGCTCACGCCTGGTGGTGGGCC  
CCTGAGCCTGCGGGTGCCTCTCACTTGAAGATCAGGCACAGATGGCTGTGGAGTTCAAATGTCGATGC  
TACCCTGGCTGGCAGGCACCGTGGTGTGAGCGGAAGAGCATGTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212549 representing NM\_153281  
 Red=Cloning site Green=Tags(s)

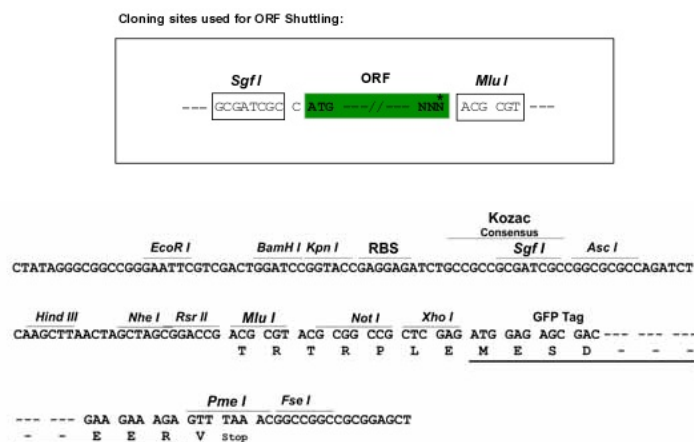
MAAHLIPICALFLTLLDMAQGFRLPLPNRPFTTWNANTQWCLERHGVDVSVFVVDVANPGQTFRGPD  
 MTIFYSSQLGTYPYPTGEPVFGGLPQNASLIAHLARTFQDILAAIPAPDFSGLAVIDWEAWRPRWAFN  
 WDTKDIYRQRSRALVQAQHPDWPAPQVEAVAQDQFQGAARAWMAGTLQLGRALRPRGLWGFYGFDCYNY  
 DFLSPNYTGQCPGSGIRAQNDQLGWLWQSRALYPSIYMPAVLEGTGKSQMYVQHRVAEAFRVAVAAGDPN  
 LPVLPYVQIFYDTTNHFLPLDELEHSLGESAAQGAAGVVLWVSWENTRTKESCQAIKEYMDTTLGPFILN  
 VTSGALLCSQALCSGHGRVVRTSHPKALLLNPFASFISQLTPGGPLSLRGALSLEDQAQMAVEFKCRC  
 YPGWQAPWCERKSMW

TRTRPLE - GFP Tag - V

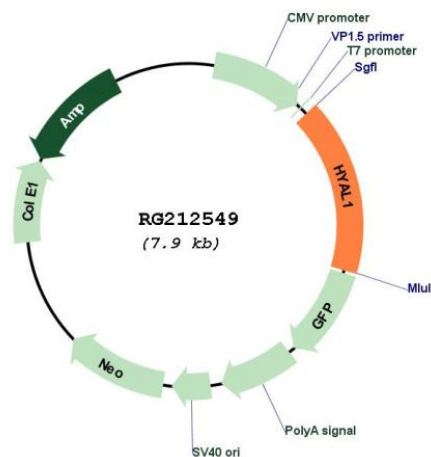
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_153281

<b>ORF Size:</b>	1305 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_153281.1</a> , <a href="#">NP_695013.1</a>
<b>RefSeq Size:</b>	2370 bp
<b>RefSeq ORF:</b>	1308 bp
<b>Locus ID:</b>	3373
<b>UniProt ID:</b>	<a href="#">Q12794</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Glycosaminoglycan degradation, Lysosome, Metabolic pathways
<b>Gene Summary:</b>	This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought to be involved in cell proliferation, migration and differentiation. This enzyme is active at an acidic pH and is the major hyaluronidase in plasma. Mutations in this gene are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]