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# Product datasheet for RG207715

## HYAL1 (NM_153285) Human Tagged ORF Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | HYAL1 (NM_153285) 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:**

>RG207715 representing NM_153285
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCCCACCTGCTTCCCATCTGCGCCCTCTTCCTGACCTTACTCGATATGGCCCAAGGCTTTAGGG
GCCCCTTGCTACCCAACCGGCCCTTCACCACCGTCTGGAATGCAAACACCCAGTGGTGCCTGGAGAGGCA
CGGTGTGGACGTGGATGTCAGTGTCTTCGATGTGGTAGCCAACCCAGGGCAGACCTTCCGCGGCCCTGAC
ATGACAATTTTCTATAGCTCCCAGCTGGGCACCTACCCCTACTACACGCCCACTGGGGAGCCTGTGTTTG
GTGGTCTGCCCCAGAATGCCAGCCTGATTGCCCACCTGGCCCGCACATTCCAGGACATCCTGGCTGCCAT
ACCTGCTCCTGACTTCTCAGGGCTGGCAGTCATCGACTGGGAGGCATGGCGCCCACGCTGGGCCTTCAAC
TGGGACACCAAGGACATTTACCGGCAGCGCTCACGGGCACTGGTACAGGCACAGCACCCTGATTGGCCAG
CTCCTCAGGTGGAGGCAGTAGCCCAGGACCAGTTCCAGGGAGCTGCACGGGCCTGGATGGCAGGCACCCT
CCAGCTGGGGCGGGCACTGCGTCCTCGCGGCCTCTGGGGCTTCTATGGCTTCCCTGACTGCTACAACTAT
GACTTTCTAAGCCCCAACTACACCGGCCAGTGCCCATCAGGCATCCGTGCCCAAAATGACCAGCTAGGGT
GGCTGTGGGGCCAGAGCCGTGCCCTCTATCCCAGCATCTACATGCCCGCAGTGCTGGAGGGCACAGGGAA
GTCACAGATGTATGTGCAACACCGTGTGGCCGAGGCATTCCGTGTGGCTGTGGCTGCTGGTGACCCCAAT
CTGCCGGTGCTGCCCTATGTCCAGATCTTCTATGACACGACAAACCACTTTCTGCCCCTGGATGAGCTGG
AGCACAGCCTGGGGGAGAGTGCGGCCCAGGGGGCAGCTGGAGTGGTGCTCTGGGTGAGCTGGGAAAATAC
AAGAACCAAGGAATCATGTCAGGCCATCAAGGAGTATATGGACACTACACTGGGGCCCTTCATCCTGAAC
GTGACCAGTGGGGCCCTTCTCTGCAGTCAAGCCCTGTGCTCCGGCCATGGCCGCTGTGTCCGCCGCACCA
GCCACCCCAAAGCCCTCCTCCTCCTTAACCCTGCCAGTTTCTCCATCCAGCTCACGCCTGGTGGTGGGCC
CCTGAGCCTGCGGGGTGCCCTCTCACTTGAAGATCAGGCACAGATGGCTGTGGAGTTCAAATGTCGATGC
TACCCTGGCTGGCAGGCACCGTGGTGTGAGCGGAAGAGCATGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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**Protein Sequence:**

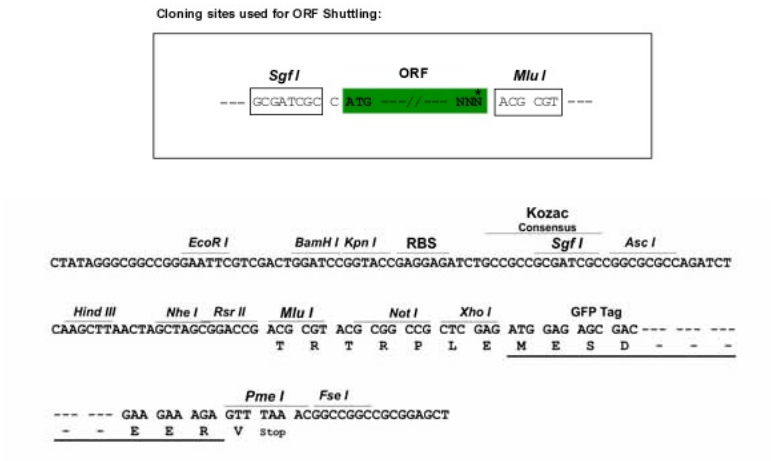
>RG207715 representing NM_153285
Red=Cloning site Green=Tags(s)

MAAHLLPICALFLTLLDMAQGFRGPLLPNRPFTTVWNANTQWCLERHGVDVDVSVFDVVANPGQTFRGPD
MTIFYSSQLGTYPYYTPTGEPVFGGLPQNASLIAHLARTFQDILAAIPAPDFSGLAVIDWEAWRPRWAFN
WDTKDIYRQRSRALVQAQHPDWPAPQVEAVAQDQFQGAARAWMAGTLQLGRALRPRGLWGFYGFPDCYNY
DFLSPNYTGQCPSGIRAQNDQLGWLWGQSRALYPSIYMPAVLEGTGKSQMYVQHRVAEAFRVAVAAGDPN
LPVLPYVQIFYDTTNHFLPLDELEHSLGESAAQGAAGVVLWVSWENTRTKESCQAIKEYMDTTLGPFILN
VTSGALLCSQALCSGHGRCVRRTSHPKALLLLNPASFSIQLTPGGGPLSLRGALSLEDQAQMAVEFKCRC
YPGWQAPWCERKSMW

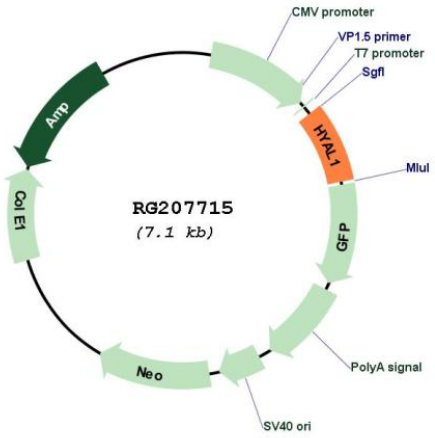
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** NM_153285

| | |
|---|---|
| **ORF Size:** | 1308 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_153285.2, NP_695017.1 |
| **RefSeq Size:** | 1328 bp |
| **RefSeq ORF:** | 531 bp |
| **Locus ID:** | 3373 |
| **UniProt ID:** | Q12794 |
| **Cytogenetics:** | 3p21.31 |
| **Protein Families:** | Secreted Protein |
| **Protein Pathways:** | Glycosaminoglycan degradation, Lysosome, Metabolic pathways |
| **Gene Summary:** | 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] |