

Product datasheet for RC207715

HYAL1 (NM_153285) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HYAL1 (NM_153285) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HYAL1
Synonyms:	HYAL-1; LUCA1; MPS9; NAT6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC207715 representing NM_153285 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGCCACCTGCTCCCATCTGCGCCCTCTTCTGACCTTACTCGATATGGCCAAGGCTTAGGG
GCCCTTGCTACCAACCGGCCCTTACCACCGTCTGGAATGCAAACACCCAGTGGTGCCTGGAGAGGCA
CGGTGTGGACGTGGATGTCAGTGTCTTCGATGTGGTAGCCAACCCAGGGCAGACCTCCGCGGCCCTGAC
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ACCTGCTCCTGACTTCTCAGGGTGGCAGTTCGACTGGGAGGCATGGCGCCACGCTGGGCTTCAAC
TGGGACACCAAGGACATTTACGGCAGCGCTCACGGGCACTGGTACAGGCACAGCACCCCTGATTGGCCAG
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TACCCTGGCTGGCAGGCACCGTGGTGTGAGCGGAAGCATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC207715 representing NM_153285
Red=Cloning site Green=Tags(s)

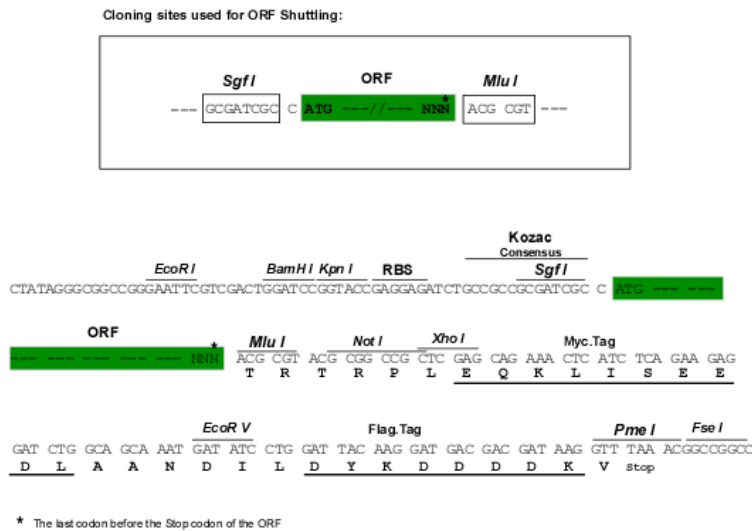
MAAHLLPICALFLTLLDMAQGFRGPLLPNRPFTTVWNANTQWCLERHGVDDVSVFVAVANPGQTFRGPD
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 WDTKDIYRQSRALVQAQHPDWPAPQVEAVAQDQFQGAARAWMAGTLQLGRALRPRGLWGFYGFPCYNY
 DFLSPNYTGQCPGIRAQNDQLGWLWQSRALYPSIYMPAVLEGTGKSQMYVQHRVAEAFRVAVAAGDPN
 LPVLPYVQIFDYDTTNNHFLPLDEHSLGESAAQGAAGVVLWVSWENTRTKESCQAIKEYMDTTLGPFILN
 VTSGALLCSQALCSGHGRCVRRTSHPKALLLNPAFSIQLTPGGPLSLRGALSLEDQAQMAVEFKCRC
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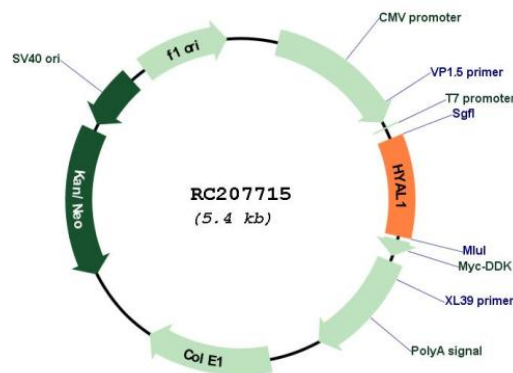
Restriction Sites:

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:	<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:	NM_153285.1 , 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
MW:	48.4 kDa
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]