

Product datasheet for **RC200552**

HYAL2 (NM_033158) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	HYAL2
Synonyms:	LUCA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC200552 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCGGGCAGGCCAGGCCACCGTTACATTGGCCCTGGTGTGGCGGTGGCATGGCCATGGAGCTCA
 AGCCACAGCACCACCATCTTCACTGGCCGGCCCTTTGTGGTAGCGTGGGACGTGCCACACAGGACTG
 TGGCCACGCCTCAAGGTGCCACTGGACCTGAATGCCTTTGATGTGCAGGCCTCACCTAATGAGGGTTTT
 GTGAACCAGAATATTACCATCTTCTACCGCGACCGTCTAGGCCTGTATCCACGCTTCGATTCTGCCGAA
 GGTCTGTGCATGGTGGTGTGCCACAGAATGTCAGCCTTTGGGCACACCGGAAGATGCTGCAGAAACGTGT
 GGAGCACTACATTCGGACACAGGAGTCTGCGGGGCTGGCGGTATCGACTGGGAGGACTGGCGACCTGTG
 TGGGTGCGCAACTGGCAGGACAAAGATGTGTATCGCCGGTTATCACGCCAGCTAGTGGCCAGTCGTACC
 CTGACTGGCCTCCAGACCGCATAGTCAACAGGCACAATATGAGTTTGAGTTCGCAGCACAGCAGTTCAT
 GCTGGAGACACTGCGTTATGTCAAGGCAGTGGCGCCCGGCACCTCTGGGGCTTCTACCTCTTTCCTGAC
 TGCTACAATCATGATTATGTGCAGAACTGGGAGAGCTACACAGGCCGCTGCCCTGATGTTGAGGTGGCC
 GCAATGACCAGCTGGCCTGGCTGTGGGCTGAGAGCACGGCCCTCTTCCCCTGTGTCTACCTGGACGAGAC
 ACTTGCTTCTCCCGCCATGGCCGCAACTTTGTGAGCTTCCGTGTTTACGAGGCCCTTCTGTGGCTCGC
 ACCCACCATGCCAACATGCACTCCAGTCTACGTCTTACACGACCCACCTACAGCCGACGGCTCACGG
 GGCTTAGTGAGATGGACCTCATCTTACCATTGGCGAGAGTGGCGCCCTGGGCGCAGCTGGTGTATCCT
 CTGGGGTGACGCGGGGTACACCACAAGCACGGAGACCTGCCAGTACCTCAAAGATTACCTGACACGGCTG
 CTGGTCCCCTACGTGGTCAATGTGTCTGGGCCACCAATATTGCAGCCGGGCCAGTGGCATGGCCATG
 GCGCTGTGTGCCCGCAACCCAGTGGCAGTACCTTCTGCATCTCAGCACCAACAGTTTCCGCCTAGT
 GCCTGGCCATGCACCTGGTGAACCCAGCTGCACCTGTGGGGGAGCTCAGTTGGGCCGACATTGACCAC
 CTGCAGACACACTTCCGCTGCCAGTGCTACTTGGGCTGGAGTGGTGGAGCAATGCCAGTGGGACCATAGGC
 AGGCAGCTGGAGGTGCCAGCGAGGCTGGGCTGGGTCCCACCTACCAGTCTGCTGGCTCTGGCAGCCCT
 GGCCTTTACCTGGACCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200552 protein sequence
 Red=Cloning site Green=Tags(s)

MRAGPGPTVTLLVLAVAWAMELKPTAPPIFTGRPFVVAWDVPTQDCGPRLKVPLDLNAFDVQASPNEG
 VNQNITIFYRDLGLYPRFDSAGRSVHGGVPQNVSLWAHRKMLQKRVEHYIRTQESAGLAVIDWEDWRPV
 WVRNWQDKDVYRRLSRQLVASRHPDWPPDRIVKQAYEFEEAAQQFMLETLYVKAVRPRHLWGFYLPD
 CYNHDYVQNWESYTGRCPDVEVARNDQLAWLWAEALFSPVYLDLASSRHGRNFVSFRVQEALRVAR
 THHANHALPVYVFTPTYSRRLTGLSEMDLISTIGESAALGAAGVILWGDAGYTTSTETCQYLKDYLTR
 LVPYVVNVSWATQYCSRAQCHGRCVRRNPASSTFLHLSTNSFRLVPGHAPGEPQLRPVGELSWADIDH
 LQTHFRQCQYLWGSGEQCCQWDHRQAAGGASEAWAGSHLTSLLALAAFTWTL

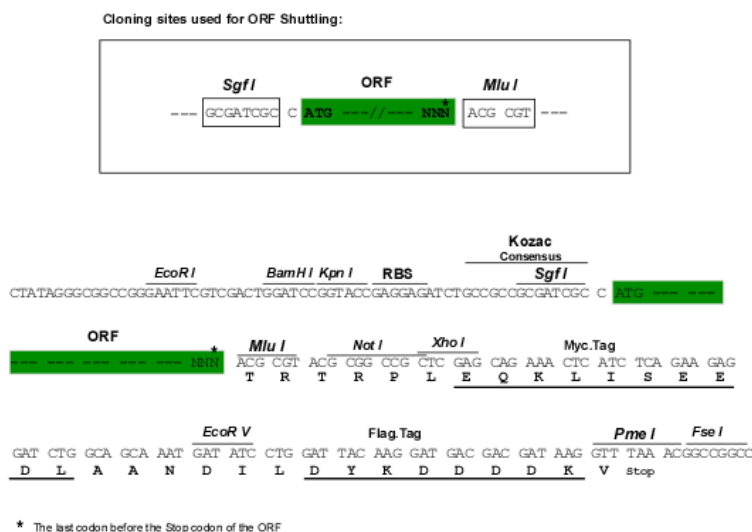
TRTRPLE**QKLISEEDLA**AND**ILDYKDDDDK**V

Chromatograms:

https://cdn.origene.com/chromatograms/mk6127_h03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_033158

ORF Size: 1419 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.
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_033158.1](#)

RefSeq Size: 2413 bp

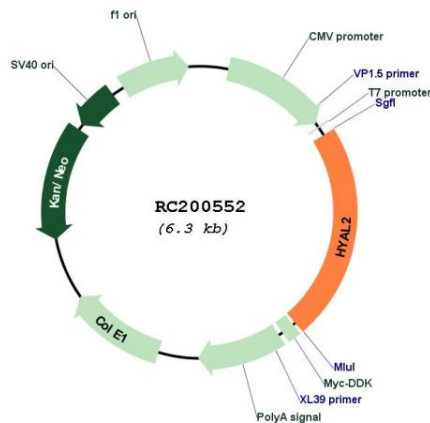
RefSeq ORF: 1422 bp

Locus ID: 8692

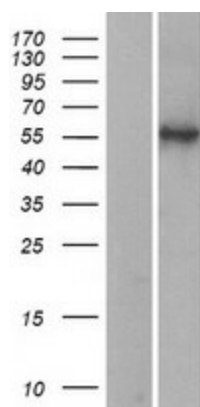
UniProt ID: [Q12891](#)
Cytogenetics: 3p21.31
Domains: Glyco_hydro_56
Protein Families: Druggable Genome
Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways
MW: 53.8 kDa

Gene Summary: This gene encodes a weak acid-active hyaluronidase. The encoded protein is similar in structure to other more active hyaluronidases. Hyaluronidases degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan and fragments of hyaluronan are thought to be involved in cell proliferation, migration and differentiation. Although it was previously thought to be a lysosomal hyaluronidase that is active at a pH below 4, the encoded protein is likely a GPI-anchored cell surface protein. This hyaluronidase serves as a receptor for the oncogenic virus Jaagsiekte sheep retrovirus. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. This gene encodes two alternatively spliced transcript variants which differ only in the 5' UTR. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC200552



Western blot validation of overexpression lysate (Cat# [LY401242]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC214453] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).