

Product datasheet for **RG206440**

HAPLN2 (NM_021817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HAPLN2
Synonyms:	BRAL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206440 representing NM_021817
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCCAGGCTGGCTCACCTCCCCACACTCTGCCGCTTCCTTCTTTGGGCTTCACCATCTTCCACAAAG
CCCAAGGAGACCCAGCATCCCACCCGGGCCCCACTACCTCCTGCCCCCATCCACGAGGTCACTCACTC
TCATCGTGGGGCCACGGCCACGCTGCCCTGCGTCCTGGGCACACGCCTCCAGCTACAAGGTGCGCTGG
AGCAAGGTGGAGCCTGGGGAGCTCCGGGAAACGCTGATCCTCATCAACACGGACTGCACGCCCGGGGT
ATGGGCCCCCTGGGAGGGCGCGCCAGGATGCGGAGGGGGCATCGACTAGACGCCTCCCTGGTCATCGCGGG
CGTGCGCCTGGAGGACGAGGGCCGGTACCGCTGCGAGCTCATCAACGGCATCGAGGACGAGAGCGTGGCG
CTGACCTTGAGCTTGGAGGGTGTGGTGTTCCTACCAACCCAGCCGGGCGGTACCGATTCAATTACT
ACGAGGCGAAGCAGGCGTGGAGGAGCAGGACGCGCTGGCCACCTACTCCAGCTCTACCAGGCTTG
GACCGAGGGTCTGACTGGTGTAAACGCGGGCTGGCTGCTCGAGGGCTCCGTGCGCTACCTGTGCTCACC
GCACGCGCCCCGTGCGCGGGCCGAGGCCGCGCCGGGATCCGAGCTACGACCCCGCGACCGGATGCGCG
ACCGCTACGACGCCTTCTGCTTACCTCCGCGCTGGCGGGCCAAGTGTCTTCGTGCCCGGGCGGCTGAC
GCTGTCTGAAGCCACGCGCGTGCCGGCGACGCGCGCGCTGGTGGCCAAGTTGGGCACCTCTACGCC
GCCTGGAAAGTTTTCGGGGCTAGACCAAGTGCAGCGCGGCTGGCTGACTGACGGCAAGTGTGCGCTTCCAA
TCACCACGCCGAGGCCGCGCTGCGGGGGCTCCCGGATCCCGAGTGCGCAGTTTCGGCTTCCCCAGGCC
CCAACAGGCAGCCTATGGGACCTACTGCTACGCCGAGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG206440 representing NM_021817
 Red=Cloning site Green=Tags(s)

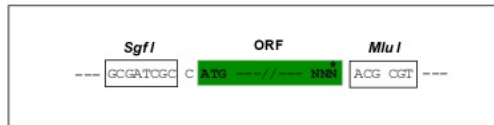
MPGWLTLPTLCRFLWAFITFHKAQGDPAHPGPHYLLPPIHEVIHSHRGATATLPCVLGTTTPSYKVRW
 SKVEPGELRETLILITNGLHARGYGPLGGRARMRRGHRLDASLVIAGVRLDEGRYRCELINGIEDESVA
 LTL SLEGVVFPYQPSRGYQFNYYEAKQACEEQDGLATYSQLYQAWTEGLDWCNAGWLLEGSVRYPVLT
 ARAPCGGRGPRGIRSYGPRDRMDRYDAFCFTSALAGQVFFVPGRLLTSEAHAACRRRGAVVAKVGHLYA
 AWKFSGLDQCDGWLADGSRFPITTPRPRCGGLPDGPVRSFGFPRPQQAAYGTICYAEN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_021817

ORF Size: 1020 bp

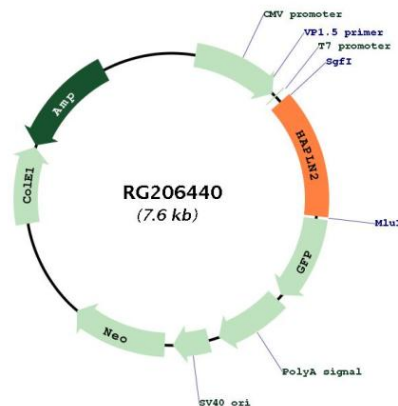
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_021817.3
RefSeq Size:	1795 bp
RefSeq ORF:	1023 bp
Locus ID:	60484
UniProt ID:	Q9GZV7
Cytogenetics:	1q23.1
Protein Families:	Secreted Protein
Gene Summary:	Mediates a firm binding of versican V2 to hyaluronic acid. May play a pivotal role in the formation of the hyaluronan-associated matrix in the central nervous system (CNS) which facilitates neuronal conduction and general structural stabilization. Binds to hyaluronic acid (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206440