

Product datasheet for **RG209683**

Grainyhead like protein 1 homolog (GRHL1) (NM_014552) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grainyhead like protein 1 homolog (GRHL1) (NM_014552) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grainyhead like protein 1 homolog
Synonyms:	grainyhead-like 1 (Drosophila); LBP-32; LBP32; LBP protein 32; leader-binding protein 32; mammalian grainyhead; MGR; TFCP2L2; transcription factor CP2-like 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209683 representing NM_014552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACACAGGAGTACGACAACAAACGGCCAGTGTGGTTCTTCAGAATGAAGCACTTTATCCACAGCGGC
 GGTCTACACTAGTGAGGATGAGGCCTGGAAATCCTTCCTGGAAAACCTCTCACTGCAGCGACCAAAGC
 GATGATGAGCATCAATGGAGATGAAGACAGCGCCGCTGCGCTGGGCTGCTCTATGACTACTACAAGTT
 CCAAGAGAGAGAAGGTCAACAGCAAAGCCAGAGGTGGAGCACCTGAGCCAGATCACAGCAAAAAGAA
 ACAGCATACCAATTGTGACAGAGCAGCCCTCATCTCTGCTGGAGAAAACAGAGTCAAGTACTGAAAA
 TGTGCCATTTAACATTGCTTCCCATGGCAACCAGCTGGGCATTGATAAGAGAGGCCATCTGACAGCT
 CCAGATACGACAGTCACTGTCTCCATAGCAACGATGCCTACCCACTCCATCAAGACAGAAACCCAGCCAC
 ATGGCTTCGCTGTGGGAATCCCCCAGCAGTGTATCATCTGAGCCCACTGAGCGGGTGGTGGTTTTCGA
 TCGGAATCTCAACTGACCAGTTCAGCTCTGGTCTCAAGCCCCAAATGCTCAAAGGCGAACTCCAGAC
 TCGACCTTCTCAGAGACCTTCAAGGAAGCGTTCAGGAGGTTTTCTTCCCTCGGATCTCAGTCTCGGGA
 TGCTGGCATGAATTCAGAGGACTATGTTTTGACAGTGTCTGGGAACAACCTTGAATATACCCTAGA
 AGCTTCAAATCACTTCGACAGAAGCCAGGAGACAGTACCATGACGTACCTGAACAAAGGCCAGTTCTAT
 CCCATCACCTTGAAGGAGGTGAGCAGCAGTGAAGGAATCCATCATCCCATCAGCAAAGTTCGAAGTGTGA
 TCATGGTGGTTTTGCTGAAGACAAAAGCAGAGAAGATCAGTTAAGGCATTGGAAGTACTGGCACTCCCG
 GCAGCACACCGCTAAACAAGATGCATTGACATAGCTGACTATAAAGAAAGCTTCAACACTATCAGTAAC
 GTCGAGGAGATTGCGTATAACGCCATTTCTTCCATGGGACATCAACGATGAAGCAAAGTTTTTCATCT
 CTGTGAAGTCTTAAGCACAGATTTCTCTTCCCAGAAGGAGTGAAGGGTTGCCTTTAACATCAAAT
 TGATACCTATAGTTACAACAACCGCAGCAACAAGCCTGTGCACCGGCCTACTGCCAGATCAAGGTCTTC
 TGTGACAAGGAGCTGAGCGGAAAATCAGGGATGAAGAACGAAAGCAAAGCAAAGAAAAGTTTTCTGATG
 TAAAGTGCCACTGCTTCCCTCTCACAAGCAATGGATATCACAGTTTTCAAACCCTTATTGATCTCGA
 TACTCAGCCTGCTCTTCTTCTGACGTGCACTTTGCCAAGTGCAGCGGGGCACTCATGCTCTTCCC
 ATTGCCTCTGAAGAATTGGAGGGTGAAGGCTCTGTCTTGAAGGGGGCCGTACGGCACAGAAGTACT
 TTGCTGCTCCCTCTTCTACCAAGCTGGCCCGATAGAAGAACCAAAGAGAGTGTCTCTACGTTGAAA
 GGAGTCAGAAGAAGTCTTTGATGCCCTGATGCTCAAACCCCATCTTTGAAGGGCTGATGAAGCTATC
 TCAGACAATACGATGTTCCCATGACAAGATTGGGAAAATATCAAGAAGTGTAAAAGGGGATCTGG
 TGAACATGGACGACAACATTGTGAAGCATTACTCCAATGAGGACACCTTCCAGCTGCAGATTGAAGAAGC
 CGGGGGTCTTACAAGCTCACCTGACGGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209683 representing NM_014552
 Red=Cloning site Green=Tags(s)

MTQEYDNKRPVLLQNEALYPQRRSYTSEDEAWKSFLLENPLTAATKAMMSINGDEDSAAALGLLYDYKVV
 PRERRSSTAKPEVEHPEPDHNSRNSIPIVTEQPLISAGENRVQVLKNVFNIVLPHGNQLGIDKRGHLTA
 PDTTVTVSIATMPTHSIKTETQPHGFAVGIPPAVYHPEPTERVVVFDRNLNTDQFSSGAQAPNAQRRTPD
 STFSETFKEGVQEVFFPSDLRLRMPGMNSEDYVFDVSVSGNFEYTLASLRLRQKPGDSTMTYLNKGQFY
 PITLKEVSSSEGIHHPISKVRSVIMVVFVAFEDKSREDQLRHWKYWHSRQHTAKQRCIDIADYKESFNITSN
 VEEIAYNAISFTWINDIAKVFISVNLSTDFSSQKGVKGLPLNIQIDTYSYNNRNSKPVHRAVCQIKVF
 CDKGAERKIRDEERKQSKRKVSDVKVPLLPVSHKRMIDITVFKPFIDLDTPVLFIPDVHFANLQRGTHVLP
 IASEELEGEVSLKRGVYGTEDDFAVPPSTKLARIEEPKRVLLYVRKESEEVFDALMLKTPSLKGLMEAI
 SDKYDVPDKIGIKIFKKCKKILVNMDDNIVKHYSNEDTFQLQIEEAGGSYKLTLEI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014552

ORF Size: 1854 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.

RefSeq: [NM_014552.2](#), [NP_055367.2](#)

RefSeq Size: 3576 bp

RefSeq ORF: 1856 bp

Locus ID: 29841

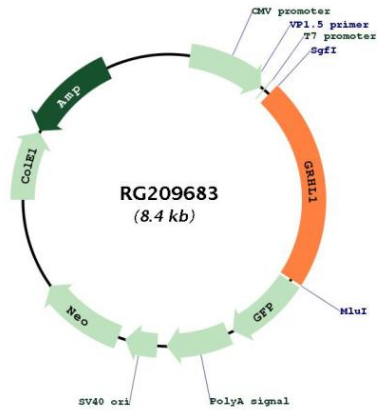
Cytogenetics: 2p25.1

Domains: CP2

Protein Families: Transcription Factors, Transmembrane

Gene Summary: This gene encodes a member of the grainyhead family of transcription factors. The encoded protein can exist as a homodimer or can form heterodimers with sister-of-mammalian grainyhead or brother-of-mammalian grainyhead. This protein functions as a transcription factor during development. [provided by RefSeq, Jun 2009]

Product images:



Circular map for RG209683