

Product datasheet for **RG229312**

Grainyhead like protein 1 homolog (GRHL1) (NM_198182) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grainyhead like protein 1 homolog (GRHL1) (NM_198182) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRHL1
Synonyms:	LBP32; MGR; NH32; TFPC2L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG229312 representing NM_198182
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACACAGGAGTACGACAACAAACGGCCAGTGTGGTTCTTCAGAATGAAGCACTTTATCCACAGCGGC
 GGTCTACACTAGTGAGGATGAGGCCTGGAAATCCTTCCTGGAAAACCTCTCACTGCAGCGACCAAAGC
 GATGATGAGCATCAATGGAGATGAAGACAGCGCCGCTGCCTGGCCCTGCTCTATGACTACTACAAGGTT
 CCAAGAGAGAGAAGGTCATCAACAGCAAAGCCAGAGGTGGAGCACCTGAGCCAGATCACAGCAAAAAGAA
 ACAGCATACCAATTGTGACAGAGCAGCCCTCATCTCTGCTGGAGAAAACAGAGTGCAAGTACTGAAAAA
 TGTGCCATTTAACATTGCTTCCCATGGCAACCAGCTGGGCATTGATAAGAGAGGCCATCTGACAGCT
 CCAGATACGACAGTCACTGTCTCCATAGCAACGATGCCTACCCACTCCATCAAGACAGAAACCCAGCCAC
 ATGGCTTCGCTGTGGGAATCCCCCAGCAGTGTATCATCTGAGCCCACTGAGCGGGTGGTGGTTTTCGA
 TCGGAATCTCAACTGACCAGTTCAGCTCTGGTCTCAAGCCCCAAATGCTCAAAGCGCAACTCCAGAC
 TCGACCTTCTCAGAGACCTCAAGGAAGCGGTTCAAGGAGTTTTCTTCCCTCGGATCTCAGTCTCGCGA
 TGCTGGCATGAATTCAGAGGACTATGTTTTGACAGTGTCTGGGAACAACCTTGAATATACCCTAGA
 AGCTTCAAATCACTTCGACAGAAGCCAGGAGACAGTACCATGACGTACCTGAACAAAGGCCAGTTCTAT
 CCCATCACCTTGAAGGAGGTGAGCAGCAGTGAAGGAATCCATCATCCCATCAGCAAAGTTCGAAGTGTGA
 TCATGGTGGTTTTGCTGAAGACAAAAGCAGAGAAGATCAGTTAAGGCATTGGAAGTACTGGCACTCCCG
 GCAGCACACCGCTAAACAAAGATGCATTGACATAGCTGACTATAAAGAAAGCTTCAACACTATCAGTAAC
 ATCGAGGAGATTGCGTATAACGCCATTTCTTCCATGGGACATCAACGATGAAGCAAAGTTTTTCATCT
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 TACTCAGCCTGCTCTTCTTCTGACGTGCACTTTGCCAAGTGCAGCGGGGCACTCATGCTCTTCCC
 ATTGCTCTGAAGAATTGGAGGGTGAAGGCTCTGTCTTGAAGGGGGCCGTACGGCACAGAAGTACT
 TTGCTGCTCCCTCTTCTACCAAGCTGGCCCGATAGAAGAACCAAAGAGAGTGTCTCTACGTTTCGAAA
 GGAGTCAGAAGAAGTCTTTGATGCCCTGATGCTCAAACCCCATCTTTGAAGGGCTTATGGAAGCTATC
 TCAGACAATACGATGTTCCCATGACAAGATTGGGAAAATATCAAGAAGTGTAAAAGGGGATCTCTGG
 TGAACATGGACGACAACATTGTGAAGCATTACTCCAATGAGGACACCTCCAGCTGCAGATTGAAGAAGC
 CGGGGGTCTTACAAGCTCACCTGACGGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG229312 representing NM_198182
 Red=Cloning site Green=Tags(s)

MTQEYDNKRPVLLVQNEALYPQRRSYTSEDEAWKSFLENPLTAATKAMMSINGDEDSAAALGLLYDYKVV
 PRERRSSTAKPEVEHPEPDHRSKNSIPIVTEQPLISAGENRVQLKNVPFNIVLPHGNQLGIDKRGHLTA
 PDTTVTVSIATMPHHSIKTETQPHGFAVGIPPAVYHPEPTERVVVFDRNLNTDQFSSGAQAPNAQRRTPD
 STFSETFKEGVQEVFFPSDLRLMPGMNSEDYVFDVSVGNFYEYTLKASKSLRQKPGDSTMTYLNKGQFY
 PITLKEVSSSEGIHHPISKVRSVIMVVF AEDKSREDQLRHWKYWHSRQHTAKQRCIDIADYKESFNTISN
 IEEIAYNAISFTWDINDEAKVFI SVNCLSTDFSSQKGVKGLPLNIQVDTYSYNNRSNKPVHRAYCQIKVF
 CDKGAERKIRDEERKQSKRKVSDVKVPLLP SHKRM DITVFKPFIDLDTPVLFIPDVHFNALQRGTHVLP
 IASEELEGEVSLKRGPYGTEDDFAVPPSTKLARIEEPKRVLLYVRKESEEVFDALMLKTPSLKGLMEAI
 SDKYDVP HDKIGKIFKCKK GILVNMDNIVKHYSNEDTFQLQIEEAGGSYKLTLEI

TRTRPLE - GFP Tag - V

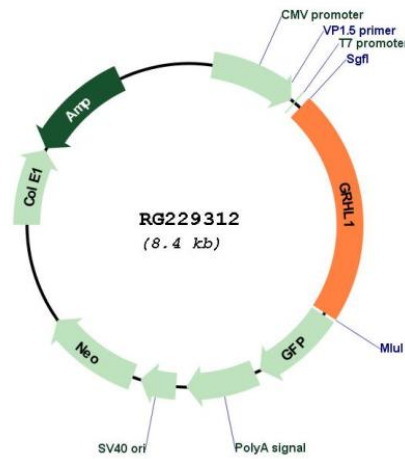
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_198182

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:	<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_198182.3
RefSeq Size:	3610 bp
RefSeq ORF:	1857 bp
Locus ID:	29841
UniProt ID:	Q9NZI5
Cytogenetics:	2p25.1
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]