

Product datasheet for **RG213012**

GRHL3 (NM_021180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRHL3 (NM_021180) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRHL3
Synonyms:	SOM; TFCP2L4; VWS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213012 representing NM_021180
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGATGAATTCATTCTTCTATTTTTCTTTTCAGGTCTGTGCGGCTGCTAAAGAACGACCCAGTCA
 ACTTGCAGAAATTCTTTACACTAGTGAGGATGAGGCCTGGAAGACGTACCTAGAAAACCCGTTGACAGC
 TGCCACAAGGCCATGATGAGAGTCAATGGAGATGATGACAGTGTTCGCGCCTTGAGCTTCTCTATGAT
 TACTACATGGGTCCCAAGGAGAAGCGGATATTGCTCCAGCACTGGGGCAGGAATGACCAAGGAAAGA
 GGTACTACCATGGCATGGAATATGAGACGGACCTCACTCCCTTGAAAGCCCCACACACCTCATGAAATT
 CCTGACAGAGAACGTGTCTGGAACCCAGAGTACCCAGATTTGCTCAAGAAGAATAACCTGATGAGCTTG
 GAGGGGCTTGGCCACCCCTGGCAAGGCAGCTCCCTCCCTGCAGGCCAGCAAGCTGGAGGCCGGCT
 CTGTGGACAGCTACCTGTTACCCACCAGTATGATGATAATGGCTCCCTCAACTCCTGTTTGGAGAG
 CATTTCATGGGGTCCGCCACACAGCGCTGGCAGCCAGACAGCACCTTCAAAGATGACCCACAGGAGTCCG
 ATGCTCTTCCAGATATCCTGAAAACCTCCCGGAACCCCATGTCCAGAGGACTACCCAGCCTCAAAA
 GTGACTTTGAATACACCTGGGCTCCCCAAAGCCATCCACATCAAGTCAGGCGAGTACCCATGGCCTA
 CCTCAACAAAGGCCAGTTCTACCCGTCACCCGCGGACCCAGCAGGTGGCAAAGGCCCTTGCTTTGTCC
 TCCAACAAAGTCAAGAGTGTGGTGTGTTGTCTTCGACAATGAGAAGTCCCAGTAGAGCAGCTGCGCT
 TCTGGAAGCACTGGCATTCCCGCAACCCACTGCCAAGCAGCGGGTCAATTGACGTGGTACTGCAAAGA
 AAATTCAACACTGTGGAGCACATTGAGGAGGTGGCCTATAATGCACTGTCTTTGTGTGGAACGTGAAT
 GAAGAGGCCAAGGTGTTTCATCGGGTAACTGTCTGAGCACAGACTTTTCTCACAAAAGGGGTGAAGG
 GTGTCCCTGAACTGCAGATTGACACCTATGACTGTGGCTGGGCAGTGGCGCTGATACACCGTGC
 TGTCTGCCAGATCAAGATCTTCTGTGACAAGGGAGCTGAGAGGAAGATGCGCGATGACGAGCGGAAGCAG
 TTCGGGAGGAAGTCAAGTGCCTGACTCCAGCAACAGTGGCGTCAAGGGCTGCCTGCTGTGCGGCTTCA
 GGGCAATGAGACGACCTACCTTCGCCCAGAGACTGACCTGGAGACGCCACCCGCTGTTTCATCCCAA
 TGTGCACTTCTCCAGCCTGCAGCGCTCTGGAGGGCAGCCCCCTCGGCAGGACCCAGCAGCTCCAACAGG
 CTGCTCTGAAGCGTACCTGCTCGCCCTCACTGAGGAGTTTGGCCTCTGCCCTCAAGCAGGCCAAGG
 AAGGCGACCTTCCAGAGTCTGCTGTATGTGCGGAGGGAGACTGAGGAGGTGTTGACGCGCTCATGTT
 GAAGCCCCAGACCTGAAGGGGCTGAGGAATGCGATCTCTGAGAAGTATGGGTTCCCTGAAGAGAACATT
 TACAAAGTCTACAAGAAATGCAAGCGAGGAATCTTAGTCAACATGGACAACAACATCATTACGATTACA
 GCAACCACGTCGCTTCTGCTGGACATGGGGAGCTGGACGGCAAATTCAGATCATCCTTAAGGAGCT
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213012 representing NM_021180
 Red=Cloning site Green=Tags(s)

MWMNSILPIFLFRSVRLKNDPVNLQKFSYTSSEDAWKTYLENPLTAATKAMMRVNGDDDSVAALSFLYD
 YYMGPKEKRILSSSTGGRNDQGKRYHYHMEYETDLTPLESPTLHKFLTENVSPTPEYDPLLLKNNLMSL
 EGALPTPGKAAPLPAGPSKLEAGSVDSYLLPTTDMYDNGSLNSLFESIHGVPPTQRWQPDSTFKDDPQES
 MLFPDILKTSPEPPCPEDYPSLKSDFEYTLGSPKAIHIKSGESPMAYLNKGQFYPTLTPAGGKGLALS
 SNKVKSVVMVFDNEKVPVEQLRFWKHWSRQPTAKQRVIDVADCKENFNTVEHIEEVAYNALSFVWNVN
 EEAKVFIGVNCLSTDFSSQKGVKGVPLNLQIDTYDCGLGTERLVHRAVCQIKIFCDKGAERKMRDDERKQ
 FRRKVKCPDSSNSGVKGCLLSGFRGNETTYLRPETDLETPPVLFIPNVHFSLQSSGGAAPSAGPSSNR
 LPLKRTCSPTFEFEPLPSKQAKEGDLQRVLLYRRETEVEFDALMLKTPDLKGLRNAISEKYGFPEENI
 YKYVKKCKRGILVNMDNIIQHYSNHVAFLDMGELDGKIQIILKEL

TRTRPLE - GFP Tag - V

Restriction Sites:

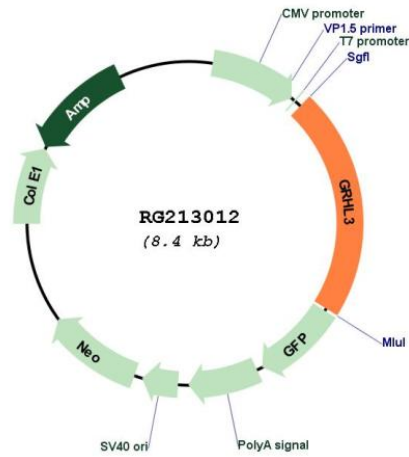
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_021180
 ORF Size: 1821 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_021180.3 , NP_067003.2
RefSeq Size:	2715 bp
RefSeq ORF:	1824 bp
Locus ID:	57822
UniProt ID:	Q8TE85
Cytogenetics:	1p36.11
Domains:	CP2
Gene Summary:	This gene encodes a member of the grainyhead family of transcription factors. The encoded protein may function as a transcription factor during development, and has been shown to stimulate migration of endothelial cells. Multiple transcript variants encoding distinct isoforms have been identified for this gene.[provided by RefSeq, Aug 2010]