

Product datasheet for **RG213118**

GRHL3 (NM_198173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRHL3 (NM_198173) 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:

>RG213118 representing NM_198173
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGAATGAACCTGATTTTCAGGTCTGTGCGGCTGCTAAAGAACGACCCAGTCAACTTGCAGAAATCT
 CTTACACTAGTGAGGATGAGGCCTGGAAGACGTACCTAGAAAACCGTTGACAGCTGCCACAAAGGCCAT
 GATGAGAGTCAATGGAGATGATGACAGTGTGCGGCCCTTGAGCTTCTCTATGATTACTACATGGGTCCC
 AAGGAGAAGCGGATATTGTCTCCAGCACTGGGGCAGGAATGACCAAGGAAAGAGGTAACCATTGGCA
 TGGAAATAGAGACGGACCTCACTCCCCTTGAAGCCCCACACACCTCATGAAATTCCTGACAGAGAACGT
 GTCTGGAACCCAGAGTACCCAGATTTGCTCAAGAAGAATAACCTGATGAGCTTGAGGGGGGCTTGCCC
 ACCCTGGCAAGGCAGCTCCCCTCCCTGCAGGCCCCAGCAAGCTGGAGGCCGGCTCTGTGGACAGCTACC
 TGTTACCCACCAGTATGTATGATAATGGCTCCCTCAACTCCTGTTGAGAGCATTATGGGGTGCC
 GCCCACACAGCGCTGGCAGCCAGACAGCACCTTCAAAGATGACCCACAGGAGTCGATGCTTCCCAGAT
 ATCCTGAAAACCTCCCCGGAACCCCATGTCCAGAGGACTACCCAGCCTCAAAAAGTGACTTTGAATACA
 CCCTGGGCTCCCCAAAGCCATCCACATCAAGTCAGGCGAGTACCCATGGCCTACCTCAACAAAGGCCA
 GTTCTACCCCGTACCCTGCGGACCCAGCAGGTGGCAAAGGCCTTGCCCTGTCCCTCAACAAAGTCAAG
 AGTGTGGTGATGGTTGTCTTCGACAATGAGAAGGTCCCAGTAGAGCAGCTGCGCTTCTGGAAGCACTGGC
 ATTCGCGCAACCCACTGCCAAGCAGCGGGTATTGACGTGGCTGACTGCAAAGAAAACCTCAACACTGT
 GGAGCACATTGAGGAGGTGGCCTATAATGCACTGTCTTTGTGTGGAACGTGAATGAAGAGGCCAAGGTG
 TTCATCGGCGTAAACTGTCTGAGCACAGACTTTTCCTCACAAAAGGGGTGAAGGGTGTCCCCTGAACC
 TGCAGATTGACACCTATGACTGTGGCTTGGCAGTGGCCTGGTACACCGTGTCTGCTGCCAGATCAA
 GATCTTCTGTGACAAGGGAGCTGAGAGGAAGATGCGCGATGACGAGCGGAAGCAGTTCGGGAGGAAGGTC
 AAGTGCCTGACTCCAGCAACAGTGGCGTCAAGGGCTGCCTGCTGTGCGGCTTCAGGGGCAATGAGACGA
 CCTACCTTCGGCCAGAGACTGACCTGGAGACGCCACCCGTGCTGTTTCATCCCAATGTGCACTTCTCCAG
 CCTGCAGCGCTCTGGAGGGGAGCCCCCTCGGCAGGACCCAGCAGCTCCAACAGGCTGCCTCTGAAGCGT
 ACCTGCTCGCCCTCACTGAGGAGTTTGGCCTTGCCTCCAAGCAGGCCAAGGAAGGGCAGCTTCCAG
 GAGTTCTGCTGTATGTGCGGAGGAGACTGAGGAGGTGTTGACGCGCTCATGTTGAAGACCCAGACCT
 GAAGGGGCTGAGGAATGCGATCTCTGAGAAGTATGGGTTCCCTGAAGAGAACATTTACAAGTCTACAAG
 AAATGCAAGCGAGGAATCTTAGTCAACATGGACAACAACATCATTACAGCATTACAGCAACCACGTCGCT
 TCCTGCTGGACATGGGGGAGCTGGACGGCAAAATTCAGATCATCCTTAAGGAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213118 representing NM_198173
 Red=Cloning site Green=Tags(s)

MSNELDFRSVRLKNDPVLNQFSYTSSEDAWKTYLENPLTAATKAMMRVNGDDDSVAALSFLYDYMG
 KEKRILSSSTGGRNDQGRYYHGMEYETDLTPLESPTLHMFLTENVSPTPEYDPLLKKNLMSLEGALP
 TPGKAAPLPAGPSKLEAGSVDSYLLPTTDMYDNGSLNSLFESIHGVPPTQRWQPDSTFKDDPQESMLFPD
 ILKTSPEPPCPEDYPSLKSDFEYTLGSPKAIHIKSGESPMAYLNKGQFYPVTLRTPAGGKGLALSSNKVK
 SVVMVFDNEKVPVEQLRFWKHWSRQPTAKQRVIDVADCKENFNTVEHIEEVAYNALSFVWVNEEAKV
 FIGVNLSTDFSSQKGVKGVPLNLQIDTYDCGLGTERLVHRAVCQIKIFCDKGAERKMRDDEKQFRKRV
 KCPDSSNSGVKGLL SGFRGNETTYLRPETDLETPPVLFIPNVHFSSLQRSGGAAPSAGPSSNRLPLKR
 TCSPFTEFEPLPSKQAKEGDLQRVLLYVRRETEEVFDALMLKTPDLKGLRNAISEKYGFPEENIYKVKY
 KCKRGILVNMDNIIQHYSNHVAFLLDMGELDGKIQIILKEL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_198173.3
RefSeq Size:	2815 bp
RefSeq ORF:	1809 bp
Locus ID:	57822
UniProt ID:	Q8TE85
Cytogenetics:	1p36.11
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]