

Product datasheet for **RG207857**

GRHL3 (NM_198174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRHL3 (NM_198174) 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:

>RG207857 representing NM_198174
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGTCAATGGAGATGATGACAGTGTTCGGCCTTGAGCTTCTCTATGATTACTACATGGGTCCCA
 AGGAGAAGCGGATATTGTCTCCAGCACTGGGGCAGGAATGACCAAGGAAAGAGGTACTACCATGGCAT
 GGAATATGAGACGGACCTCACTCCCCTTAAAGCCCCACACACCTCATGAAATTCCTGACAGAGAACGTG
 TCTGGAACCCAGAGTACCCAGATTTGCTCAAGAAGAATAACCTGATGAGCTTGGAGGGGCTTCCCA
 CCCCTGGCAAGGCAGCTCCCCTCCCTGCAGGCCAGCAAGCTGGAGGCCGGCTCTGTGGACAGCTACCT
 GTTACCCACCCTGATATGTATGATAATGGCTCCCTCACTCCTTGTGGAGAGCATTATGGGGTCCG
 CCCACACAGCGTGGCAGCCAGACAGCACCTTCAAAGTACCCACAGGAGTCGATGCTCTTCCAGATA
 TCCTGAAAACCTCCCGGAACCCCATGTCCAGAGGACTACCCAGCCTCAAAGTGACTTTGAATACAC
 CCTGGGCTCCCCAAAGCCATCCACATCAAGTCAGGCGAGTCACCCATGGCTACCTCAACAAAGGCCAG
 TTCTACCCGTCACCCCTGCGGACCCAGCAGGTGGCAAAGGCCTTGCCTTGTCTCAACAAAGTCAAGA
 GTGTGGTATGGTTGTCTTCGACAATGAGAAGTCCCAGTAGAGCAGCTGCGCTTCTGGAAGCACTGGCA
 TTCCCGCAACCCACTGCCAAGCAGCGGTATTGACGTGGTACTGCAAAGAAAATTCAACTGTG
 GAGCACATTGAGGAGGTGGCCTATAATGCACTGTCCTTTGTGTGGAACGTGAATGAAGAGGCCAAGGTG
 TCATCGGCGTAACTGTCTGAGCACAGACTTTTCTCACAAAAGGGGTGAAGGGTGTCCCCTGAACCT
 GCAGATTGACACCTATGACTGTGGCTTGGGCACTGAGCGCCTGGTACACCGTGTCTGCCAGATCAAG
 ATCTTCTGTGACAAGGGAGCTGAGAGGAAGATGCGCGATGACGAGCGGAAGCAGTCCGGAGGAAGTCA
 AGTCCCTGACTCCAGCAACAGTGGCGTCAAGGGCTGCCTGCTGTCGGGCTTCAAGGGCAATGAGACG
 CTACCTTCGGCCAGAGACTGACCTGGAGACGCCACCCGTGCTGTTTCATCCCAATGTGCACTTCTCAGC
 CTGCAAGCCTCTGGAGGGCAGCCCCCTCGGCAGGACCCAGCAGCTCAAACAGGCTGCCTCTGAAGCGTA
 CCTGCTCGCCCTCACTGAGGAGTTTGGCCTCTGCCCTCAAGCAGGCCAAGGAAGGCGACCTTCAAG
 AGTTCTGCTGTATGTGCGGAGGGAGACTGAGGAGGTGTTTACGCGCTCATGTTGAAGACCCAGACCTG
 AAGGGCTGAGGAATGCGATCTCTGAGAAGTATGGGTTCCCTGAAGAGAACATTTACAAAGTCTACAAGA
 AATGCAAGCGAGGAATCTTAGTCAACATGGACAACAACATCATTACAGATTACAGCAACCACGTCGCCT
 CCTGCTGGACATGGGGAGCTGGACGGCAAATTCAGATCATCTTAAGGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207857 representing NM_198174
 Red=Cloning site Green=Tags(s)

MRVNGDDDSVAALSFLYDYVMGPKEKRILSSSTGGRNDQKRYHGMMEYETDLTPLESPTHLMKFLTENV
 SGTPEYDLLKKNLMSLEGALPTGKAAPLPAGPSKLEAGSVDSYLLPTTDMYDNGSLNSLFESIHGVP
 PTQRWQPDSTFKDDPQESMLFPDILKTSPEPPCPEDYPSLKSDFEYTLGSPKAIHIKSGESPMAYLNKGQ
 FYPVTLRTPAGGKGLALSSNKVKSVMVVFNEKVPVEQLRFWKHWHSRQPTAKQRVIDVADCKENFTV
 EHIEEVAYNALSFVWNVNEEAKVFIGVNLSTDFSSQGVKGVPLNLQIDTYDCGLGTERLVHRAVCQIK
 IFCDKGAERKMRDDERKQFRKVKCPDSSNSGVKGCLLSGFRGNETTYLRPETDLETTPVLFIPNVHFSS
 LQRSGGAAPSAGPSSNRLPLKRTCSPFTEFEPLPSKQAKEGDLQRVLLYVRRETEEVFDALMLKTPDL
 KGLRNAISEKYGFPEENIYKVYKCKRGILVNMDNNIIQHYSNHVAFLLDMGELDGKIQIILKEL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_198174

ORF Size: 1665 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_198174.1](#), [NP_937817.2](#)

RefSeq Size: 2528 bp

RefSeq ORF: 1881 bp

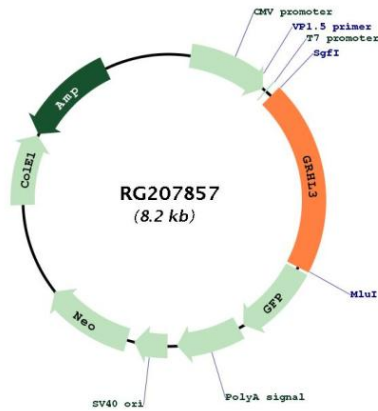
Locus ID: 57822

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]

Product images:



Circular map for RG207857