

## Product datasheet for **RG230850**

### GRHL3 (NM\_001195010) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GRHL3 (NM_001195010) 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:**

>RG230850 representing NM\_001195010  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAGTCAATGGAGATGATGACAGTGTTCGGCCTTGAGCTTCTCTATGATTACTACATGGGTCCCA  
 AGGAGAAGCGGATATTGTCTCCAGCACTGGGGCAGGAATGACCAAGGAAAGAGGTACTACCATGGCAT  
 GGAATATGAGACGGACCTCACTCCCCTTAAAAGCCCCACACACCTCATGAAATTCCTGACAGAGAACGTG  
 TCTGGAACCCAGAGTACCCAGATTTGCTCAAGAAGAATAACCTGATGAGCTTGGAGGGGCTTCCCA  
 CCCCTGGCAAGGCAGCTCCCCTCCCTGCAGGCCAGCAAGCTGGAGGCCGGCTCTGTGGACAGCTACCT  
 GTTACCCACCCTGATATGATGATAATGGCTCCCTCACTCCTTGTGGAGAGCATTATGGGGTCCG  
 CCCACACAGCGTGGCAGCCAGACAGCACCTTCAAAGTAGCCACAGGAGTCGATGCTCTTCCAGATA  
 TCCTGAAAACCTCCCGGAACCCCATGTCCAGAGGACTACCCAGCCTCAAAGTGACTTTGAATACAC  
 CCTGGGCTCCCCAAAGCCATCCACATCAAGTCAGGCGAGTCACCCATGGCTACCTCAACAAAGGCCAG  
 TTCTACCCCGTACCCCTGCGGACCCAGCAGGTGGCAAAGGCCTTGCCTTGTCTCAACAAAGTCAAGA  
 GTGTGGTATGGTTGTCTTCGACAATGAGAAGTCCCAGTAGAGCAGCTGCGCTTCTGGAAGCACTGGCA  
 TTCCCGCAACCCACTGCCAAGCAGCGGTCATTGACGTGGTACTGCAAAGAAAACCTCAACACTGTG  
 GAGCACATTGAGGAGGTGGCCTATAATGCACTGTCCTTTGTGTGGAACGTGAATGAAGAGGCCAAGGTG  
 TCATCGGCGTAACTGTCTGAGCACAGACTTTTCTCACAAAAGGGGGTGAAGGGTGTCCCCTGAACCT  
 GCAGATTGACACCTATGACTGTGGCTTGGGCACTGAGCGCCTGGTACACCGTGTCTGCCAGATCAAG  
 ATCTTCTGTGACAAGGGAGCTGAGAGGAAGATGCGCGATGACGAGCGGAAGCAGTCCGGAGGAAGTCA  
 AGTCCCTGACTCCAGCAACAGTGGCTCAAGGGCTGCCTGCTGTCGGGCTTCAAGGGGCAATGAGACG  
 CTACCTTCGGCCAGAGACTGACCTGGAGACGCCACCCGTGCTGTTTCATCCCAATGTGCACTTCTCCAGC  
 CTGCAAGCCTCTGGAGGGCAGCCCCCTCGGCAGGACCCAGCAGCTCAAACAGGCTGCCTCTGAAGCGTA  
 CCTGCTCGCCCTCACTGAGGAGTTTGGCCTCTGCCCTCAAGCAGGCCAAGGAAGGCGACCTTCCAGAG  
 AGTTCTGCTGTATGTGCGGAGGGAGACTGAGGAGGTGTTTACGCGCTCATGTTGAAGACCCAGACCTG  
 AAGGGCTGAGGAATGCGATCTCTGAGAAGTATGGGTTCCCTGAAGAGAACATTTACAAAGTCTACAAGA  
 AATGCAAGCGAGGAATCTTAGTCAACATGGACAACAACATCATTACAGCATTACAGCAACCACGTCGCCT  
 CCTGCTGGACATGGGGAGCTGGACGGCAAATTCAGATCATCCTTAAGGAGCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230850 representing NM\_001195010  
 Red=Cloning site Green=Tags(s)

MRVNGDDDSVAALSFLYDYVMGPKEKRILSSSTGGRNDQKRYHGMMEYETDLTPLESPHLMKFLTENV  
 SGTPEYDLLKKNLMSLEGALPTGKAAPLPAGPSKLEAGSVDSYLLPTTDMYDNGSLNSLFESIHGVP  
 PTQRWQPDSTFKDDPQESMLFPDILKTSPEPPCPEDYPSLKSDFEYTLGSPKAIHIKSGESPMAYLNKGQ  
 FYPVTLRTPAGGKGLALSSNKVKSVMVVDNEKVPVEQLRFWKHWHSRQPTAKQRVIDVADCKENFTV  
 EHIEEVAYNALSFVWNVNEEAKVFIGVNLSTDFSSQKGVKGVPLNLQIDTYDCGLGTERLVHRAVCQIK  
 IFCDKGAERKMRDDERKQFRKVKCPDSSNSGVKGCLLSGFRGNETTYLRPETDLETTPVLFIPNVHFSS  
 LQRSGGAAPSAGPSSNRLPLKRTCSPFTEFEPLPSKQAKEGDLQRVLLYVRRETEEVFDALMLKTPDL  
 KGLRNAISEKYGFPEENIYKVYKCKRGILVNMDNIIQHYSNHVAFLLDMGELDGKIQIILKEL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001195010
<b>ORF Size:</b>	1668 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001195010.1</a> , <a href="#">NP_001181939.1</a>
<b>RefSeq Size:</b>	2814 bp
<b>RefSeq ORF:</b>	1671 bp
<b>Locus ID:</b>	57822
<b>UniProt ID:</b>	<a href="#">Q8TE85</a>
<b>Cytogenetics:</b>	1p36.11
<b>Gene Summary:</b>	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]