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Product datasheet for RC207857

GRHL3 (NM_198174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRHL3 (NM_198174) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRHL3
Synonyms:	SOM; TFCP2L4; VWS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC207857 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGTCAATGGAGATGATGACAGTGTTGCGGCCTTGAGCTTCCTCTATGATTACTACATGGGTCCCA
AGGAGAAGCGGATATTGTCCTCCAGCACTGGGGGCAGGAATGACCAAGGAAAGAGGTACTACCATGGCAT
GGAATATGAGACGGACCTCACTCCCCTTGAAAGCCCCACACACCTCATGAAATTCCTGACAGAGAACGTG
TCTGGAACCCCAGAGTACCCAGATTTGCTCAAGAAGAATAACCTGATGAGCTTGGAGGGGGCCTTGCCCA
CCCCTGGCAAGGCAGCTCCCCTCCCTGCAGGCCCCAGCAAGCTGGAGGCCGGCTCTGTGGACAGCTACCT
GTTACCCACCACTGATATGTATGATAATGGCTCCCTCAACTCCTTGTTTGAGAGCATTCATGGGGTGCCG
CCCACACAGCGCTGGCAGCCAGACAGCACCTTCAAAGATGACCCACAGGAGTCGATGCTCTTCCCAGATA
TCCTGAAAACCTCCCCGGAACCCCCATGTCCAGAGGACTACCCCAGCCTCAAAAGTGACTTTGAATACAC
CCTGGGCTCCCCCAAAGCCATCCACATCAAGTCAGGCGAGTCACCCATGGCCTACCTCAACAAAGGCCAG
TTCTACCCCGTCACCCTGCGGACCCCAGCAGGTGGCAAAGGCCTTGCCTTGTCCTCCAACAAAGTCAAGA
GTGTGGTGATGGTTGTCTTCGACAATGAGAAGGTCCCAGTAGAGCAGCTGCGCTTCTGGAAGCACTGGCA
TTCCCGGCAACCCACTGCCAAGCAGCGGGTCATTGACGTGGCTGACTGCAAAGAAAACTTCAACACTGTG
GAGCACATTGAGGAGGTGGCCTATAATGCACTGTCCTTTGTGTGGAACGTGAATGAAGAGGCCAAGGTGT
TCATCGGCGTAAACTGTCTGAGCACAGACTTTTCCTCACAAAAGGGGGTGAAGGGTGTCCCCCTGAACCT
GCAGATTGACACCTATGACTGTGGCTTGGGCACTGAGCGCCTGGTACACCGTGCTGTCTGCCAGATCAAG
ATCTTCTGTGACAAGGGAGCTGAGAGGAAGATGCGCGATGACGAGCGGAAGCAGTTCCGGAGGAAGGTCA
AGTGCCCTGACTCCAGCAACAGTGGCGTCAAGGGCTGCCTGCTGTCGGGCTTCAGGGGCAATGAGACGAC
CTACCTTCGGCCAGAGACTGACCTGGAGACGCCACCCGTGCTGTTCATCCCCAATGTGCACTTCTCCAGC
CTGCAGCGCTCTGGAGGGGCAGCCCCCTCGGCAGGACCCAGCAGCTCCAACAGGCTGCCTCTGAAGCGTA
CCTGCTCGCCCTTCACTGAGGAGTTTGAGCCTCTGCCCTCCAAGCAGGCCAAGGAAGGCGACCTTCAGAG
AGTTCTGCTGTATGTGCGGAGGGAGACTGAGGAGGTGTTTGACGCGCTCATGTTGAAGACCCCAGACCTG
AAGGGGCTGAGGAATGCGATCTCTGAGAAGTATGGGTTCCCTGAAGAGAACATTTACAAAGTCTACAAGA
AATGCAAGCGAGGAATCTTAGTCAACATGGACAACAACATCATTCAGCATTACAGCAACCACGTCGCCTT
CCTGCTGGACATGGGGGAGCTGGACGGCAAAATTCAGATCATCCTTAAGGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207857 protein sequence
Red=Cloning site Green=Tags(s)

MRVNGDDDSVAALSFLYDYYMGPKEKRILSSSTGGRNDQGKRYYHGMEYETDLTPLESPTHLMKFLTENV
SGTPEYPDLLKKNNLMSLEGALPTPGKAAPLPAGPSKLEAGSVDSYLLPTTDMYDNGSLNSLFESIHGVP
PTQRWQPDSTFKDDPQESMLFPDILKTSPEPPCPEDYPSLKSDFEYTLGSPKAIHIKSGESPMAYLNKGQ
FYPVTLRTPAGGKGLALSSNKVKSVVMVVFDNEKVPVEQLRFWKHWHSRQPTAKQRVIDVADCKENFNTV
EHIEEVAYNALSFVWNVNEEAKVFIGVNCLSTDFSSQKGVKGVPLNLQIDTYDCGLGTERLVHRAVCQIK
IFCDKGAERKMRDDERKQFRRKVKCPDSSNSGVKGCLLSGFRGNETTYLRPETDLETPPVLFIPNVHFSS
LQRSGGAAPSAGPSSSNRLPLKRTCSPFTEEFEPLPSKQAKEGDLQRVLLYVRRETEEVFDALMLKTPDL
KGLRNAISEKYGFPEENIYKVYKKCKRGILVNMDNNIIQHYSNHVAFLLDMGELDGKIQIILKEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6343_e07.zip

Restriction Sites: SgfI-MluI

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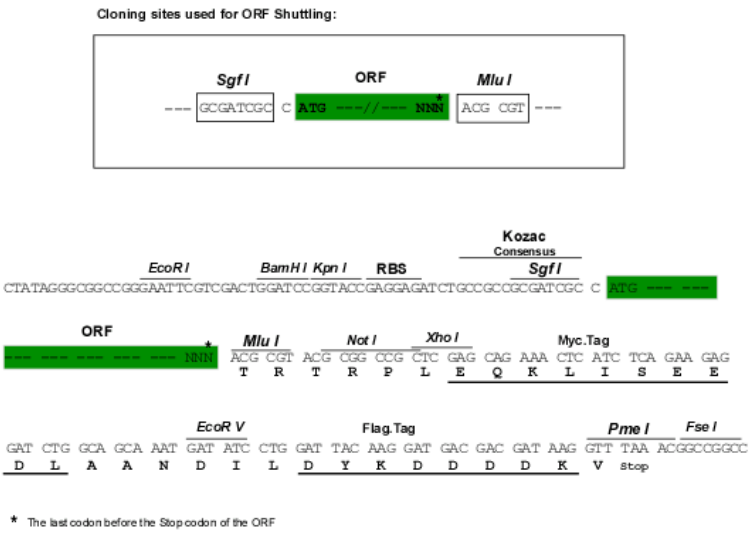
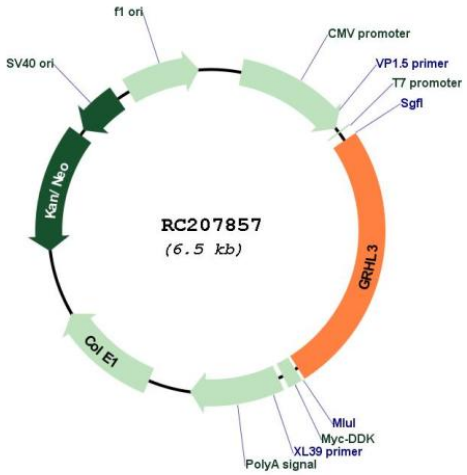
Cloning Scheme:



Plasmid Map:



ACCN: NM_198174

ORF Size: 1668 bp

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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 Size:	2232 bp
RefSeq ORF:	1881 bp
Locus ID:	57822
UniProt ID:	Q8TE85
Cytogenetics:	1p36.11
MW:	62.2 kDa
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]

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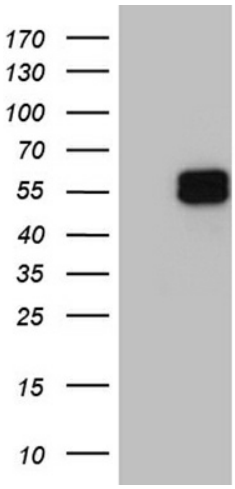
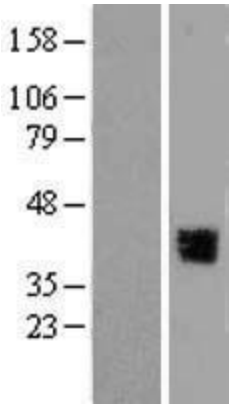
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GRHL3 (Cat# RC207857, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GRHL3 (Cat# [TA810684])(1:2000). Positive lysates [LY404981] (100ug) and [LC404981] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY404981]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207857 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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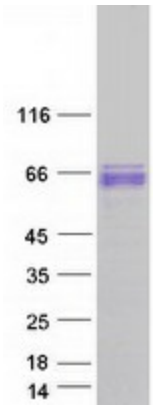

Coomassie blue staining of purified GRHL3 protein (Cat# [TP307857]). The protein was produced from HEK293T cells transfected with GRHL3 cDNA clone (Cat# RC207857) using MegaTran 2.0 (Cat# [TT210002]).

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