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Product datasheet for MC217966

Grhl1 (NM_001161406) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grhl1 (NM_001161406) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grhl1
Synonyms:	LBP-32; MGR; Tcfcp2l2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC217966 representing NM_001161406
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACAGGAGTACGACAACAAAAGGCCCGTGCTGGTACTTCAGAATGAAGCCCTCTACCCACAGCGGC
GCTCCTATACCAGTGAGGATGAAGCCTGGAAGTCGTTCCTGGAAAACCCTCTCACTGCGGCAACCAAAGC
GATGATGAGCATCAACGGAGACGAAGACAGCGCGGCTGCGCTGGGCCTGCTCTATGACTACTACAAGGTC
CCCAGAGAGCGCCGGTCATCAGCCGTAAAGCCCGAGGGAGAGCACCCAGAGCCAGAGCACAGCAAAAGAA
ACAGCATACCAAATGTGACGGAGCAGCCCCTCATTTCTGCTGGAGAAAACAGGGTGCAAGTGCTGAAAAA
CGTGCCCTTCAACATCGTCCTCCCCCATAGCAACCAGCTGGGCATTGATAAGAGAGGCCATCTGACAGCT
CCCGATACAACAGTCACTGTCTCCATAGCAACCATGCCTACCCACTCCATCAAGACAGAAATCCAGCCGC
ACGGCTTTGCTGTGGGAATCCCACCAGCCGTGTACCACTCTGAGCCCACCGAACGTGTGGTGGTTTTTGA
CCGGAGCCTCAGCACTGATCAGTTCAGCTCTGGCACTCAGCCCCCCAATGCTCAGCGGAGGACTCCAGAC
TCCACCTTCTCCGAGACCTTCAAGGAGGGCGTTCAGGAGGTTTTCTTCCCCTCGGAACTCAGCCTTCGGA
TGCCGGGCATGAATTCAGAGGACTATGTCTTTGACAATGTTTCTGGGAACAACTTTGAGTATACCCTGGA
AGCCTCCAAGTCACTGCGGCAGAAGCAAGGGGACAGCACTATGACATACCTGAATAAAGGCCAGTTCTAT
CCTGTCACCTTAAAGGAAGGAAGCAGCAATGAAGGGATTCACCACCCTATCAGCAAAGTTCGAAGTGTGA
TCATGGTGGTTTTTGCTGAAGACAAAAGCAGAGAAGACCAGCTGAGACACTGGAAGTACTGGCACTCCCG
TCAGCACACGGCCAAACAGAGGTGCATTGACATTGCTGACTACAAAGAAAGCTTCAACACTATCAGCAAC
ATTGAGGAGATAGCTTATAACGCCATTTCCTTCACGTGGGACATCAATGATGAGGCAAAGGTCTTCATCT
CTGTGAACTGCTTGAGCACAGATTTCTCTTCTCAGAAGGGTGTGAAGGGCTTGCCACTCAACATTCAAAT
CGACACATACAGCTATAACAACCGCAGCAACAAGCCGGTTCACCGGGCCTACTGCCAGATAAAGGTCTTC
TGCGACAAGGGAGCTGAAAGGAAAATTCGGGATGAAGAACGAAAACAGAGCAAGAGAAAAGTGTCTGACG
TTAAAGTGCAGCTGCTTCCCTCGCACAAACGGACAGACATCACAGTGTTCAAGCCCTTCCTGGACCTCGA
CACTCAGCCTGTCCTCTTCATTCCGGACGTGCATTTTACCAACCTGCAGCGGGGCAGTCATGTTCTTTCC
CTCCCCTCTGAAGAACTGGAAGGTGAAGGCTCTGTCTTGAAAAGAGGGCCATTCGGAACCGAAGATGACT
TTGGAGTTCCTCCTCCTGCTAAGCTGACTCGGACAGAAGAACCCAAGAGAGTGCTGCTCTATGTCCGAAA
GGAATCAGAAGAAGTCTTCGACGCCCTGATGCTCAAGACGCCGTCTTTGAAGGGCCTGATGGAGGCAATT
TCAGACAAGTATGATGTCCCCCATGACAAGATTGGGAAAATATTTAAGAAGTGCAAAAAAGGGATCCTCG
TGAACATGGACGACAACATTGTGAAGCACTACTCCAATGAGGACACCTTCCAGCTGCAGATAGAGGAAGC
CGGCGGCTCGTACAAGCTCACCCTGACAGAGATTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001161406

Insert Size: 1857 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001161406.1, NP_001154878.1
RefSeq Size:	3487 bp
RefSeq ORF:	1857 bp
Locus ID:	195733
UniProt ID:	Q921D9
Cytogenetics:	12 A1.3
Gene Summary:	Transcription factor involved in epithelial development. Binds directly to the consensus DNA sequence 5'-AACCGGTT-3' (PubMed:18288204, PubMed:21081122). Important regulator of DSG1 in the context of hair anchorage and epidermal differentiation, participates in the maintenance of the skin barrier (PubMed:18288204, PubMed:24586629). There is no genetic interaction with GRHL3 no genetic interaction with GRHL3, no functional cooperativity due to diverse target gene selectivity during epithelia development (PubMed:21081122). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).