

## Product datasheet for **MC217636**

### Grhl1 (NM\_145890) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grhl1 (NM_145890) 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:** >MC217636 representing NM\_145890  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTTCTCCTTGATGATGAAGTGTGTGACCTAAACAGCATACCAAATGTGACGGAGCAGCCCTCATT  
 CTGCTGGAGAAAACAGGGTGCAAGTGCTGAAAAACGTGCCCTTCAACATCGTCCTCCCCATAGCAACCA  
 GCTGGGCATTGATAAGAGAGGCCATCTGACAGCTCCCGATACAACAGTCACTGTCTCCATAGCAACCATG  
 CCTACCCACTCCAAGACAGAAATCCAGCCGCACGGCTTTGCTGTGGGAATCCCACCAGCCGTGTACC  
 ACTCTGAGCCACCGAACGTGTGGTGGTTTTGACCGAGCCTCAGCACTGATCAGTTCACTCTGGCAC  
 TCAGCCCCCAATGCTCAGCGGAGGACTCCAGACTCCACCTTCTCCGAGACCTTCAAGGAGGGCGTTTCA  
 GAGTTTTCTCCCTCGGAAGTCAAGCTTCCGATGCCGGGCATGAATTCAGAGGACTATGTCTTTGACA  
 ATGTTTCTGGGAACAACCTTGTAGTATACCTGGAAGCCTCAAGTCACTCGGCAGAAAGCAAGGGGACAG  
 CACTATGACATACCTGAATAAAGGCCAGTTCTATCCTGTACCTTAAAGGAAGGAAGCAGCAATGAAGGG  
 ATTCACCACCCTATCAGCAAAGTTCGAAGTGTGATCATGGTGGTTTTGCTGAAGACAAAAGCAGAGAAG  
 ACCAGCTGAGACTGGAAGTACTGGCACTCCCGTCAGCACACGGCCAAACAGAGGTGCATTGACATTGC  
 TGACTACAAAAGAAAGCTTCAACACTATCAGCAACATTGAGGAGATAGCTTATAACGCCATTTCTTTCAG  
 TGGGACATCAATGATGAGGCAAAGGTCTTCACTCTGTGAACTGCTTGGACACAGATTTCTTCTCAGA  
 AGGGTGTGAAGGGCTTGGCACTCAACATTCAAATCGACACATACAGCTATAACAACCGCAGCAACAAGCC  
 GGTTACCCGGGCTACTGCCAGATAAAGGTCTTCTGCGACAAGGGAGCTGAAAGGAAAATTCGGGATGAA  
 GAACGAAAACAGAGCAAGAGAAAAGTGTCTGACGTTAAAGTGCAGCTGCTTCCCTCGCACAACGGACAG  
 ACATCACAGTGTCAAGCCCTTCTGGACCTCGACACTCAGCCTGTCTTCTTATTCCGGACGTGCATTT  
 TACCAACCTGCAGCGGGCAGTCATGTTCTTCCCTCCCTCTGAAGAAGTGAAGGTGAAGGCTCTGTC  
 TTGAAAAGAGGGCCATTGGAACCGAAGATGACTTTGGAGTTCCTCCTCTGCTAAGCTGACTCGGACAG  
 AAGAACCACAGAGAGTGTCTATGTCCGAAAGGAATCAGAAGAAGTCTTCGACGCCCTGATGCTCAA  
 GACGCCGTCTTTGAAGGGCTGATGGAGGCAATTCAGACAAGTATGATGTCCCCATGACAAGATTGGG  
 AAAATATTTAAGAAGTGCAAAAAGGGATCCTCGTGAACATGGACGACAACATTGTGAAGCACTACTCCA  
 ATGAGGACACCTCCAGCTGCAGATAGAGGAAGCCGGCGCTCGTACAAGCTCACCTGACAGAGATTTA  
 A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_145890

**Insert Size:** 1611 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\\_145890.2](#), [NP\\_665897.2](#)

**RefSeq Size:** 3100 bp

**RefSeq ORF:** 1611 bp

**Locus ID:** 195733

**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 (2) differs in the 5' UTR and coding region, and initiates translation at an alternate start codon compared to variant 1. The encoded isoform 92) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.