

## Product datasheet for **SC313424**

### Grainyhead like protein 1 homolog (GRHL1) (NM\_198182) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grainyhead like protein 1 homolog (GRHL1) (NM_198182) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRHL1
Synonyms:	LBP32; MGR; NH32; TFPC2L2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >SC126623 representing NM\_198182.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGACACAGGAGTACGACAACAAACGGCCAGTGTGGTCTTCAGAATGAAGCACTTTATCCACAGCGG
CGGTCCTACACTAGTGAGGATGAGGCCTGGAATCCTTCTGGAAAACCTCTCACTGCAGCGACCAAA
GCGATGATGAGCATCAATGGAGATGAAGACAGCGCCGCTGCGCTGGGCTGTCTATGACTACTACAAG
GTTCCAAGAGAGAGAAGGTCATCAACAGCAAAGCCAGAGGTGGAGCACCCCTGAGCCAGATCACAGCAA
AGAAACAGCATACCAATTGTGACAGAGCAGCCCTCATCTCTGCTGGAGAAAACAGAGTGCAAGTACTG
AAAAATGTGCCATTTAACATTGTCTTCCCATGGCAACCAGCTGGGCATTGATAAGAGAGGCCATCTG
ACAGCTCCAGATACGACAGTCACTGTCTCCATAGCAACGATGCCTACCCACTCCATCAAGACAGAAACC
CAGCCACATGGCTTCGCTGTGGGAATCCCCCAGCAGTGTATCATCTGAGCCCACTGAGCGGGTGGTG
GTTTTCGATCGGAATCTCAATACTGACCAGTTCAGCTCTGGTGTCAAGCCCAAATGCTCAAAGGCGA
ACTCCAGACTCGACCTTCTCAGAGACCTCAAGGAAGGCGTTCAGGAGTTTTCTCCCTCGGATCTC
AGTCTGCGGATGCCTGGCATGAATTCAGAGGACTATGTTTTGACAGTGTCTGGGAACAACCTTGAA
TATACCCTAGAAGCTTCAAATCACTTCGACAGAAAGCCAGGAGACAGTACCATGACGTACCTGAACAAA
GGCCAGTCTATCCCATCACCTGAAGGAGGTGAGCAGCAGTGAAGGAATCCATCATCCCATCAGCAAA
GTTCAAGTGTGATCATGGTGGTTTTGCTGAAGACAAAAGCAGAGAAGATCAGTTAAGGCATTGGAAG
TACTGGCACTCCCGGCAGCACACCGCTAAACAAAGATGCATTGACATAGCTGACTATAAAGAAAGCTTC
AACACTATCAGTAACATCGAGGAGATTGCGTATAACGCCATTTCTTCCATGGGACATCAACGATGAA
GCAAAGGTTTTCTCTGTGAACTGCTTAAGCACAGATTTCTTCCAGAAGGGAGTGAAGGGGTTG
CCTTTAACTTCAAATGATACCTATAGTTACAACAACCGCAGCAACAAGCCTGTGCACCGGCCATC
TGCCAGATCAAGTCTTCTGTGACAAGGGAGCTGAGCGGAAAATCAGGGATGAAGAACGAAAGCAAAGC
AAAAGAAAAGTTCTGATGTTAAAGTGCCACTGCTTCCCTCTCACAAAGCAATGGATATCACAGTTTC
AAACCTTCATTGATCTCGATACTCAGCTGTCCCTCTTCACTTCCAGCTGCACTTTGCCAAGTTCAG
CGGGCACTCATGTCTTCCATTGCTCTGAAGAATTGGAGGGTGAAGGCTCTGTCTTGAAGGGGG
CCGTACGGCACAGAAGATGACTTTGCTGTCCCTCTTACCAAGCTGGCCCGGATAGAAGAACCAAG
AGAGTGTGCTCTACGTTGAAAGGAGTCAAGAAGTCTTTGATGCCCTGATGCTCAAAACCCATCT
TTGAAGGGCTTGATGGAAGCTATCTCAGACAAATACGATGTTCCCGATGACAAGATTGGGAAAATATTC
AAGAAGTGTAAAAGGGGATCCTGGTGAACATGGACGACAACATTGTGAAGCATTACTCCAATGAGGAC
ACCTTCAGCTGCAGATTGAAGAAGCCGGGGGCTTACAAGCTACCCTGACGGAGATCTAA
  
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_198182 unedited

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GGCCGCGAATTCGGCACCAGCAACCCGTGCGGGCCGCGCTCCGGACCCGCAGCCGCCGCCGCCCTC
CTCCCCCGGATCGGGTGTACTGTCCCAACCCGAAAGTCCAGTTCTGCGGCCCGGAGCGGGCAGCGGG
CGCGATGACACAGGAGTACGACAACAAACGGCCAGTGTGGTCTTCAGAATGAAGCACTTTATCCACA
GCGGCGGTCTCACTAGTGAGGATGAGGCCTGAAAATCCTTCTGGAAAACCTCTCACTGCAGCGAC
CAAAGCGATGATGAGCATCAATGGAGATGAAGACAGCGCCGCTGCGCTGGGCTGTCTATGACTACTA
CAAGGTTCCAAGAGAGAGAAGGTCATCAACAGCAAAGCCAGAGGTGGAGCACCCCTGAGCCAGATCACAG
CAAAAGAAAACAGCATACCAATTGTGACAGAGCAGCCCTCATCTCTGCTGGAGAAAACAGAGTGCAAGT
ACTGAAAATGTGCCATTTAACATTGTCTTCCCATGGCAACCAGCTGGGCATTGATAAGAGAGGCCA
TCTGACAGCTCCAGATACGACAGTCACTGTCTCCATAGCAACGATGCCTACCCACTCCATCAAGACAGA
AACCCAGCCACATGGGCTTCGCTGTGGGAATCCCCCAGCAGTGTATCATCTGAGCCCACTGAGCGGG
TGGTGGTTTTCGATCGGAATCTCATACTGACCAGTTCAGCTCTGGTGTCAA
  
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_198182 unedited TATAAAATTAATTCCTTTGGTTTAAATACATCTTCAATGATACAANTTAAAAATAACACACAAGACAAA ATCAACTTCATAAAAAATATAAAAGTTATATGACCCATATCCCATATCTTATCTTAGAAAACCAGCAAT TTAGTTCCCATACTTCATTAGAATACTTTAACCTAAGACTGTAACCTACCAGTCCATTTACACGAATGAC CTAGTCTAGTTCCCTGAACCTAAAGATACCCGTGACTTTGTTATAAAATTACATATTTTAGTATTTTTA TATACTTAAATGTGTACAAAATGTTCCCTGCCATAGTAACGTATTTTGTGAATTCATGAATGTTTTTC TAGAATTGTTAACATACAAGATAATCAAAGCACGAAGGCTCTGATGCGTGATAAAAATAATCATTTCCTCA AAACAGGAAGATGAGAACTGCATTTTCGAGTTGTATCACTTGGTACGCAATACTTGAATCTGTGTGCTG TAATTACAGTGTTTCTTCACTCTAAGTGACTCTGACTGATACTAGCATAACAAAAGACGTGATGGCAGT AGTGGTTTTTTTTTACTTCATTGGTTAAACAGGGCAGAATTCCAATTAACACCTTTCTCAACAGCAAAA CAGAATCTTTGCCATTTGAGGAGTTTTGCTATGCTACCGAATGCCCGGTGTTGGACAAACAGGGAAA AACGCGTTTAGCCGGTTCCTAAGCCCCGTTTCCATTTGCGGGCGTTACCCGCACAAAAATAA TTCAAACCTCTGGGCTAGGGCAAGTCCTTAAGGTGACTTTACTGGGATTTTCGCGCCATTCCGACCGGGC CTCTCGTGTGTTTTGCTCCGGTTCGCCCCGCTGTTCTTTTACGGGACCGGGTCAGTTGTTTTCT GTATAACGTCGCGTTTTGCTTTCACGGTTTTGTCTGTTTCTTTGACGTATTCGCGGGCGGCCGCTCGG TTCATATTTTCATGGTTGAGGCGGTGTGTACCTGTGTACCTTCGTCTTCTCGCAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_198182
<b>Insert Size:</b>	1857 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_198182.2</a>
<b>RefSeq Size:</b>	3610 bp
<b>RefSeq ORF:</b>	1857 bp
<b>Locus ID:</b>	29841
<b>UniProt ID:</b>	<a href="#">Q9NZI5</a>
<b>Cytogenetics:</b>	2p25.1

**Protein Families:** Transcription Factors, Transmembrane

**MW:** 70.1 kDa

**Gene Summary:** This gene encodes a member of the grainyhead family of transcription factors. The encoded protein can exist as a homodimer or can form heterodimers with sister-of-mammalian grainyhead or brother-of-mammalian grainyhead. This protein functions as a transcription factor during development. [provided by RefSeq, Jun 2009]