

Product datasheet for **RG214498**

GRHL2 (NM_024915) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRHL2 (NM_024915) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRHL2
Synonyms:	BOM; DFNA28; ECTDS; PPCD4; TFPC2L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214498 representing NM_024915
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCACAAGAGTCGGACAATAATAAAAGACTAGTGGCCTTAGTGCCCATGCCAGTGACCTCCATTCA
 ATACCCGAAGAGCCTACACCAGTGAGGATGAAGCCTGGAAGTCATACTTGAGAATCCCCTGACAGCAGC
 CACCAAGGCCATGATGAGCATTAAATGGTATGAGGACAGTGCTGCTGCCCTCGGCCCTGCTCTATGACTAC
 TACAAGTTCTCTCGAGACAAGAGGCTGCTGTCTGTAAGCAAAGCAAGTGACAGCCAAGAAGACCAGGAGA
 AAAGAACTGCCTTGGCACCAGTGAAGCCAGAGTAATTTGAGTGGAGGAGAAAACCGAGTGCAAGTCTCT
 AAAGACTGTTCCAGTGAACCTTTCCCTAAATCAAGATCACCTGGAGAATCCAAGCGGGAACAGTACAGC
 ATCAGCTTCCCGAGAGCTCTGCCATCATCCCGGTGTCGGGAATCACGGTGGTAAAGCTGAAGATTTCA
 CACCAGTTTTATGGCCCCACCTGTGACTATCCCGGGGAGATGGGAAGAGCAACGAGTGGTTATCTT
 TGAACAGACTCAGTATGACGTGCCCTCGCTGGCCACCCACAGCGCCTATCTCAAAGACGACCAGCGCAGC
 ACTCCGGACAGCACATACAGCGAGAGCTTCAAGGACGCAGCCACAGAGAAATTTCCGAGTGTTCAGTTG
 GGGCTGAGGAGTACATGTATGATCAGACATCAAGTGGCACATTTCACTACACCCTGGAAGCCACCAATC
 TCTCCGTGAGAAGCAGGGGGAGGGCCCCATGACCTACCTCAACAAAGGACAGTTCTATGCCATAACACTC
 AGCGAGACCGGAGACAACAAATGCTTCCGACACCCCATCAGCAAAGTCAGGAGTGTGGTATGGTGGTCT
 TCAGTGAAGACAAAAACAGAGATGAACAGCTCAAATACTGGAAACTGCGCACTCTCGGCAGCATAACGGC
 GAAGCAGAGGGTCTTGACATTGCCGATTACAAGGAGAGCTTTAATACGATTGAAAACATTGAAGAGATT
 GCATATAATGCTGTTTCCCTTACCTGGGACGTGAATGAAGAGGCGAAGATTTTCATCACCCTGAATTGCT
 TGAGCACAGATTTCTCTCCCAAAAAGGGGTGAAAGGACTTCTTTGATGATTGACATGACACATACAG
 TTATAACAATCGTAGCAATAAACCCATTATAGAGCTTATTGCCAGATCAAGTCTTCTGTGACAAAGGA
 GCAGAAAGAAAAATCCGAGATGAAGAGCGGAAGCAGAACAGGAAGAAAGGAAAGGCCAGGCCTCCCAAA
 CTCAATGCAACAGCTCCTCTGATGGGAAGTTGGCTGCCATACCTTTACAGAAGAAGAGTGACATCACCTA
 CTTCAAAACCATGCCTGATCTCCACTCACAGCCAGTTCTTTCATACCTGATGTTCACTTTGCAAACCTG
 CAGAGGACCGGACAGGTGATTACAACACGGATGATGAACGAGAAGGTGGCAGTGTCTTGTAAACGGA
 TGTTCCGGCCATGGAAGAGGAGTTTGGTCCAGTGCCTTCAAAGCAGATGAAAGAAGAAGGGACAAAGCG
 AGTGCTCTTGTACGTGAGGAAGGAGACTGACGATGTGTTGATGCATTGATGTTGAAGTCTCCACAGTG
 AAGGGCCTGATGGAAGCGATATCTGAGAAATATGGGCTGCCCGTGGAAGAAGATAGCAAAGCTTTACAAGA
 AAAGCAAAAAGGCATCTTGGTGAACATGGATGACAACATCATCGAGCACTACTCGAACGAGGACACCTT
 CATCTCAACATGGAGAGCATGGTGGAGGGCTTCAAGGTCACGCTCATGGAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214498 representing NM_024915
 Red=Cloning site Green=Tags(s)

MSQESDNNKRLVALVPMPSPFPNTRRAYTSEDEAWKSYLENPLTAATKAMMSINGDEDSAAALGLLYDY
 YKVPDRKRLLSVSKASDSQEDQEKRNLGTSEAQSNL SGGENRVQVLKTVPVNLSLNQDHLNSKREQYS
 ISFPSSAIIIPVSGITVKAEDFTPVFMAPPVHYPRGDGEEQRVVIFEQTQYDVP SLATHSAYLKDDQRS
 TPDSTYSESFKAATEKFRSASVGAEEYMYDQTSSTGTFQYTLKSLRQKQEGPMTYLNKGQFYAITL
 SETGDNKCFRHPISKVRSVVMVVFSEDKNRDEQLKYWKYWSRQHTAKQVRVLDIADYKESFNITGNEEII
 AYNAVSTWVDNEEAKIFITVNCLSTDFSSQKGVKGLPLMIQIDTYSYNNRSNPKIHRAYCQIKVFCDKG
 AERKIRDEERKQNRKKGQASQTQCNSSDGKLA AAIPLQKKS DITYFKT MPDLHSQPVLFIPDVHFNAL
 QRTGQVYYNTDDEREGGSVLVKRMFRPMEEEFGPVPSKQMKKEGTRVLLYVRKETDDVFDALMLKSPTV
 KGLMEAISEKYGLPVEKIAKLYKSKKGLVNMDDNIIIEHYSNEDTFILNMEMVEGFKVTLMEI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_024915

ORF Size: 1875 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: [NM_024915.4](#)

RefSeq Size: 5231 bp

RefSeq ORF: 1878 bp

Locus ID: 79977

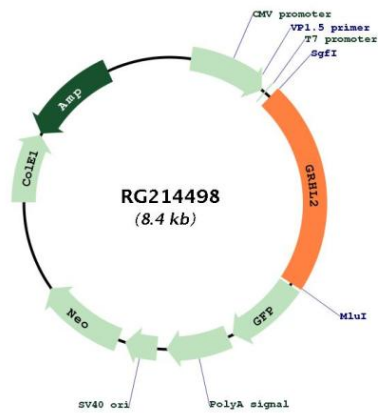
UniProt ID: [Q6ISB3](#)

Cytogenetics: 8q22.3

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene is a transcription factor that can act as a homodimer or as a heterodimer with either GRHL1 or GRHL3. Defects in this gene are a cause of non-syndromic sensorineural deafness autosomal dominant type 28 (DFNA28).[provided by RefSeq, Mar 2009]

Product images:



Circular map for RG214498