

Product datasheet for **RG212173**

VANGL2 (NM_020335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VANGL2 (NM_020335) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VANGL2
Synonyms:	LPP1; LTAP; STB1; STBM; STBM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212173 representing NM_020335
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACACCGAGTCCCAGTACTCGGGCTATTCTACAAGTCGGGCCACTCCCGCAGCTCCCGCAAGCAC
 GGGACCGCGGGACCGACACCGCTCTAAGAGTCGAGATGGGGGCCGAGGGGACAAGTCGGTGACAATCCA
 GGCTCCCGGGGAGCCCTGCTGGACAATGAGTCCACACGAGGGGATGAGCGGGATGACAACCTGGGGGAA
 ACGACGACAGTAGTAACGGGCACCTCAGAGCACAGCATCTCCCATGATGACCTCACACGCATCGCCAAGG
 ACATGGAGGACAGTGTCCCTCTGGACTGCTCCCGTCACCTGGGTGTGGCAGCGGGGGCCACCCTGGCACT
 GCTGTCTTTCTCACGCCTCTGGCCTTCTGCTGCTGCCCCACTGCTGTGGCGGGAGGAGCTGGAGCCT
 TGCGGGACGGCCTGCGAGGGCCTTTCATCTCTGTCGCCTTCAAGCTGCTCATCTGCTACTGGGCAGCT
 GGGCTCTGTTCTCCGCCGGCCAAAGCCTCGCTGCCCGCGTCTTTGTGCTGCGTGCCCTGTTATGGT
 GCTGGTTTTCTGCTCGTGGTCTCTACTGGCTTCTATGGTGTGCGCATCTGGATGCTCGGGAGCGC
 AGCTACAGGGCGTGGTGCAATTCGCCGTGTCGCTGGTGGACGCCCTTCTTTTCTGCACTACCTGGCCG
 TGGTCTGCTGGAGCTGCGCCAGCTCCAGCCTCAGTTCACGCTCAAGGTCGTGCGCTCCACCGACGGCGC
 CAGCCGCTTCTACAACGTTGGCCATCTCAGCATCCAGCGCGTGGCAGTGTGGATCCTGGAGAAGTATTAC
 CATGACTTCCCTGTCTACAACCTGCCCTCTCAACCTGCCCAAGTCCGTCCTGGCCAAGAAAGTGTCTG
 GCTTCAAGGTGTATTCCCTCGGAGAGGAAAACAGCACCAACAACCTCCACTGGCCAGTCTCGGGCTGTGAT
 TGCAGCGGCAGCTCGGAGGCGGGACAACAGTACAATGAGTACTACTATGAGGAGGCTGAGCATGAGCGA
 AGGTGCGCAAGAGGAGGGCCAGGCTTGTAGTGGCGGTGGAGGAGCCTTCACTCACATTAAGCGGCTGC
 AGGAAGAGGAGCAGAAAAACCCAGGGAGGTGATGGACCCCGGGAGGCAGCCCAAGCCATCTTTGCATC
 CATGGCCCGTGCCATGCAGAAGTACCTTCGGACCACCAAGCAGCAGCCCTACCACACCATGGAGAGCATC
 CTGCAACACCTTGAATTCTGCATCACGCATGACATGACGCCCAAGGCCTTCTGGAGCGATACTGGCGG
 CTGGACCTACCATCCAGTACCACAAGGAACGCTGGCTGGCCAAACAGTGGACATTGGTGAGCGAGGAGCC
 GGTGACCAACGGCCTCAAGGATGGCATCGTTTTCTCTTAAAACGCCAGGACTTCAGCCTGGTGGTCAGC
 ACCAAGAAGTCCATTCTTCAAACCTCTCCGAGGAATTTGTGGATCCCAAGTCACACAAGTTTGTATGA
 GGCTGCAGTCTGAGACCTCAGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212173 representing NM_020335
 Red=Cloning site Green=Tags(s)

MDTESQYSYGSYKSGHSRSSRKHRRDRRHRSKSRDGGRGDKSVTIQAPGEPLLDNESTRGDERDDNWGE
 TTTVVVTGTSEHSISHDDLTRIAKDMEDSVPLDCSRHLGVAAGATLALLSFLTPLAFLLLPPLLWREELEP
 CGTACEGLFISVAFKLLILLGSWALFFRRPKASLPRVFLRALLMVLVFLLVVSYWLFYGVRIILDARER
 SYQGVVQFAVSLVDALLFVHYLAVVLELRQLQPQFTLKVVRSTDGASRFYNVGHLSIQRVAVWILEKYY
 HDFPVYNPALLNLPKSVLAKKVSQKQVYSLGEENSTNNSTGQSRVIAAAAARRRDNHNEYEEAEHER
 RVRKRRARLVAVVEEAFTHIKRLQEEEQKQNPVMDPREAAQAIFASMARAMQKYLRTTKQPPYHTMESI
 LQHLEFCITHDMPKAFLELYLAAGPTIQYHKERWLAKQWTLVSEEPVTNGLKDGIVFLLKRQDFSLVVS
 TKKVPFFKLSEEFVDPKSHKFMRLQSETSV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_020335

ORF Size: 1563 bp

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: [NM_020335.3](#)

RefSeq Size: 5415 bp

RefSeq ORF: 1566 bp

Locus ID: 57216

UniProt ID: [Q9ULK5](#)

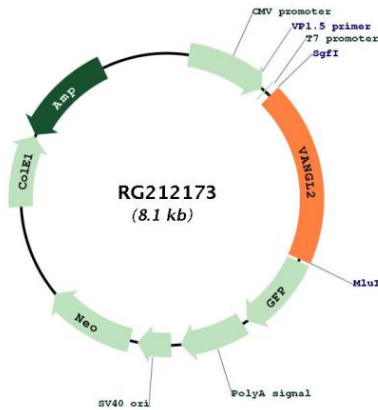
Cytogenetics: 1q23.2

Protein Families: Transmembrane

Protein Pathways: Wnt signaling pathway

Gene Summary: The protein encoded by this gene is a membrane protein involved in the regulation of planar cell polarity, especially in the stereociliary bundles of the cochlea. The encoded protein transmits directional signals to individual cells or groups of cells in epithelial sheets. This protein is also involved in the development of the neural plate. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG212173