

Product datasheet for **MC205935**

Vangl2 (BC052195) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vangl2 (BC052195) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vangl2
Synonyms:	Lpp1, Vang1l2, stbm, strabismus
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC052195
 CCGATTGCTTGGTTCTGGGTCCC GCCATGGGAGCCTGAGCGCCCTGCAGTCCCCTCCGGCCCCCTGCCCC
 CCGGGCCCTCGAGGGGAAACAGGCGAGTGGTCTGGGACGGAGCCGGGTGAGCGACCTCAGGAGCCCCC
 TCGTCAACCCCATCGCCCGCGCTGCCGTTCTGGAGCGCGGAGTTCGGAAGGACCGGTGCGCTGCGGA
 TACAAAGCGCGGAGCGGAGTGGGGCTGCGCCAGTCCACCCGCTGTTTCGAGTGGCGGGGAGCTGTC
 GCTTGAATTTCTCTGAGATAAGCCCACTGTCCAGCAAAATAGAGTCCCTCAGGGTGACGGTTGACTTCC
 TAAAGGTGCCTCTTGGCCTGAAGAAGCCTGTGCTGAAGGAGGTGGCTGTGGGACCCCCCAAGAGGTCCCA
 GCCCGCGCCCTGGAGCGCTACAAGGCACGGCGTTCGGACGCCATGGACACCGAGTCCCAGTACTCGGGC
 TATTCTACAAGTCGGGCCACTCCCGCAGCTCCCGGAAGCACAGGACCCCGGGACCGACACCGCTCTA
 AGAGCCGGGATGGGAGTCGTGGAGATAAATCAGTGACGATCCAGGCTCCGGGAGAACCCTGCTGGACAA
 TGAGTCCACGAGGGGGATGAGCGGATGACAACCTGGGAGAAACAACAACGGTGGTACGCGGCACTTCT
 GAGCACAGTATCTCCATGATGACCTCACGCGCATCGCCAAGGACATGGAGGACAGTGTCCCGTTGGATT
 GTTCCCGCCACCTGGCGTGGCGCAGGGGCCATTCTGGCGTGTCTCGTTCTCACCCGCTGGCTTT
 CCTGCTGTGCCTCCACTGCTGTGGCGGAGGAGCTGGAGCCGTGTGGACGGCCTGTGAGGGCCTCTTC
 ATCTCCGTGGCCTCAAGCTGCTCATCCTGCTGTTGGGCAGCTGGGCTCTGTTCTCCGCCGGCCCAAGG
 CCTCACTGCCCGAGTCTTCGTGTACGAGCTCTGCTCATGGTGTGTCTTCTGCTGGTTATTTCTTA
 TTGGCTCTTCTACGGTGTGCGCATCTTGGACGCCCGGGAGCGGAGCTACCAGGGCGTGGTTCAGTTTGC
 GTTTCTCTAGTGGATGCTTACTCTTCGTGCACTATCTGGCCGTAGTTCTGCTGGAGCTCCGTCAGCTCC
 AGCCCCAGTTCACACTCAAGGTCGTGCGATCCACAGATGGGGCCAGCCGTTCTACAATGTCGGCCATCT
 CAGCATCCAGCGAGTGGCAGTGTGGATCCTGGAGAAGTATTACCATGACTTCCCTGTCTACAACCCCGCC
 CTCCTCAACCTGCCCAAGTCCGTCTGGCCAAGAAAGTGTCTGGCTTCAAGGTGTATTCTCTCGGAGAGG
 AAAACAGCACCAATAACTCCACGGGCCAATCAAGGGCTGTGATCGCGGCTGCGGCACGGAGGCCGACAA
 CAGCCACAATGAGTACTACTACGAGGAAGCCGAGCATGAGCGCAGAGTGCGAAGCGCAGGGCCAGGCTC
 GTGGTGGCTGTGGAGGAGCCTTACGCACATTAAAGCGGCTGCAGGAAGAGGAGCAGAAGAACCCAGGG
 AGGTGATGGACCCCGGGAAGCAGCCAAAGCGATCTTTGCATCCATGGCTCGTGCATGCAGAAAGTACCT
 TCGCACCAACAAACAGCAGCCTTACCATAACCATGGAGAGCATCCTTACGACCTGGAGTTCTGCATTACC
 CACGACATGACACCCAAGGCCTTCTGGAGCGATATTTGGCTGTGGACCCACCATCCAGTACCACAAGG
 AACGTTGGCTGGCCAAACAGTGGACCTTGGTGGAGGAGGCGGTGACCAATGGGCTTAAAGGATGGCAT
 CGTGTTCCTCTTGAAGCGCCAGGACTTCACTTGGTAGTGAGCACCAAGAAGGTGCCCTTCTCAAATC
 TCTGAGGAATTTGTGGATCCCAAGTACATAAGTTCGTATGCGGCTGCAGTCGGAGACCTGTGTGAC
 TTTTGCAGCAGCCGCGGAGGAGGATGTGGGGGTTTCTGCGGAGTGGGAGGGGCTTGGTCTCTGCCCC
 TGACACATTTCTGCCAGTCTACTTCTCTTGGCTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTGT
 TTTTTTTTTTACTTGAATTAACCTATCCTGTACCCAGTCTCCCTCTTCTCAGTTTTTCCCATCTGGA
 AATCTGGAGATAAATCTTGTCTTAAACAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: RsrII-NotI
ACCN: BC052195
Insert Size: 1566 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: [BC052195](#), [AAH52195](#)

RefSeq Size: 2363 bp

RefSeq ORF: 1566 bp

Locus ID: 93840

Cytogenetics: 1 79.54 cM

Gene Summary: Involved in the control of early morphogenesis and patterning of both axial midline structures and the development of neural plate. Plays a role in the regulation of planar cell polarity, particularly in the orientation of stereociliary bundles in the cochlea. Required for polarization and movement of myocardializing cells in the outflow tract and seems to act via RHOA signaling to regulate this process. Required for cell surface localization of FZD3 and FZD6 in the inner ear (PubMed:16495441).[UniProtKB/Swiss-Prot Function]