

Product datasheet for **SC215717**

GPR124 (ADGRA2) (NM_032777) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	GPR124 (ADGRA2) (NM_032777) Human 3' UTR Clone
Symbol:	GPR124
Synonyms:	GPR124; TEM5
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_032777
Insert Size:	2000 bp



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Insert Sequence: >SC215717 3'UTR clone of NM_032777
 The sequence shown below is from the reference sequence of NM_032777. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGACTCTGGAAGAGCGAAACTACCGTCTAAGGTGGGGCGGGCAGCGGTAGACGGGCTGGCCACGCGG
CTCGTTCCCCCGCTCCTCGGGCCCTCCAAGGTGTCTCCGTAGTCAGCAGGTTGGAGGCAGAGGAGCCG
ATGGCTGGAGGAAGCCACAGGCGGATGTTCCCACTTGCTAGAGGGCATCCCTCTGGGGTAGCGACA
GACAATCCAGAAACACGCATAATACATTTCCGTCCAGCCGGGGCAGTCTGACTGTGCGTGCCCTCCC
AGGAACGGGGAAGGCCTCCGTCTGTGTGAAAGGGCACAGCACATCCCAGGTGCACCCTCCCCAAGTACT
CCCACCCCGCTACTGTCCATGCGGCCTACTGGGGCCATCAGCCTACCAGCAAAGCAGAGATGAGA
GGGTGGAACTGTGTTCTTCCCTCCCTGCTACTGATTTAGCCAGCCCTGCCTAGATCCTAGG
TCCCTTTTCTCCGAGTTTGGCTGGCAGAGAGCTAGCCAGCACATGAAGCAGGTGATGTTAAGTCA
CAAGGTGCTGCTTTTTCAGATCCACTATGCAAGAGGGGAGGGTGGGGCCAGGTGAAAGGCAGCTCTAGAC
ATCAACCAGTCTGGGGAGGGGAGTGGGAACCGGGCACAACTAGGAACATGCCACCATTCCCACAGG
AGTGGTACTTAAACCAGACAGCAGGGTTCAGAGGTGGCACACCGGGACAAAGCTGAGGCCCTGCACCTC
AACAGCTGACTGCCAGGTGCCTGTGGGTGAACTGAGGGGAGTAGAGGGAGAGGGCAGGTGGAACTGGGG
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GGCCTCATACCAAGGTGACAGAGGACACAGGGGAGGGGAAAACCCACACACTCCTTGGAAATGGGT
CCTGTTATTTATGCTTGTGCACAGACATATTAGAAGAAAAAAGCTTTGTATTATTCTTCCACAT
ATGCTGGCTGCTGTTTACACACCCTGCCAATGCCTTAGCACTGGAGAGCTTTTGAATATGCTGGGGA
AAGGGGAGGGAGGAATGAAAGTGCCAAAGAAAACATGTTTTTAAAGAACTCGGGTTTTATACAATAGAA
TGTTTTCTAGCAGATGCCTCTTGTGTTTAAATATATTAATAATTTGCAAAGCCCTTTGAGCTACTGCCTTA
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CTGTGAATGCACGTAGGGCCAGAATCCCCAGTTCCTCGCTCTGAGGGTTGATACTGTGGGAATGC
CAACCACTCCACAAGCAGAGGGAAGCCCTCAGGCCTGCAGGAGGAGCCGACGAGTGTGTCATTC
AAACCAGCAGCAAAGAGCCTGACATTTTCCCATCCATCTATGAGGAAAGCCATCTCACAGAACATGGAC
ATAGGCAACTTGCTCTCCACACCAAGGGATGGGAATCTCTCCTACCTATAGTCATCCCTGCACTCCT
ACGCGT AAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_032777.10](#)

Summary:

Endothelial receptor which functions together with RECK to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:28289266, PubMed:30026314). Plays a key role in Wnt7-specific responses, such as endothelial cell sprouting and migration in the forebrain and neural tube, and establishment of the blood-brain barrier (By similarity). Acts as a Wnt7-specific coactivator of canonical Wnt signaling: required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (PubMed:30026314). ADGRA2-tethering function does not rely on its G-protein coupled receptor (GPCR) structure but instead on its combined capacity to interact with RECK extracellularly and recruit the Dishevelled scaffolding protein intracellularly (PubMed:30026314). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (PubMed:16982628).[UniProtKB/Swiss-Prot Function]

Locus ID:

25960

MW:

72.1