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Product datasheet for MC224269

Adgra2 (NM_054044) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adgra2 (NM_054044) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adgra2
Synonyms:	8430414O08Rik; 9530074E10Rik; Gpr124; mKIAA1531; Tem5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224269 representing NM_054044
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGCGGGGGGACGCAGGATGCCGGTGCCTCCCGCGCGTTTGCTGCTGCTGCCGCTGCTGCCTTGTC
TTCTGCTCCTGGCTCCTGGAACTCGGGGTGCGCCTGGCTGCCCGGTCCCTATCCGCGGTTGCAAGTGCTC
TGGGGAGCGGCCCAAGGGACTAAGTGGCGGCGCCCACAACCCGGCTCGAAGGAGGGTGGTGTGCGGCGGT
GGGGATCTCCCCGAACCTCCAGATCCCGGCCTTCTGCCAAACGGCACCATCACCTTGCTCTTGAGCAACA
ACAAGATTACTGGGCTCCGCAATGGATCCTTCTTGGGACTGTCCCTGTTGGAGAAGTTGGACCTGAGGAG
CAATGTCATCAGCACTGTGCAGCCTGGAGCCTTCCTAGGTCTGGGAGAGCTAAAACGCTTAGATCTCTCC
AACAATCGGATTGGCTGTCTCACCTCTGAGACATTTCAAGGGCTCCCTAGACTTCTCAGACTAAACATAT
CTGGAAACATCTACTCTAGTCTGCAACCTGGGGTCTTTGATGAGCTGCCAGCCCTTAAGATTGTGGACTT
TGGTACTGAGTTTCTGACCTGTGACTGCCGCCTGCGCTGGCTGCTGCCCTGGGCCCGGAATCACTCCCTG
CAGCTGTCTGAGCGCACACTCTGTGCCTACCCCAGTGCCCTGCACGCCCATGCCCTGAGCAGCCTCCAGG
AGTCCCAGCTTCGCTGTGAAGGGGCCCTGGAACTGCACACCCACTACCTCATCCCATCCCTTCGCCAAGT
GGTGTTCCAGGGTGACCGCCTGCCCTTCCAGTGCTCAGCCAGCTACTTGGGCAACGATACCCGGATCCAC
TGGTACCACAATGGGGCTCCTATGGAGAGCGATGAGCAGGCCGGCATCGTCCTTGCTGAAAACCTTATCC
ATGATTGCACCTTCATCACCAGTGAGCTGACCCTGTCTCACATTGGTGTGTGGGCCTCTGGTGAATGGGA
GTGCTCCGTGTCCACAGTCCAAGGCAACACCAGCAAGAAGGTGGAGATAGTAGTGCTGGAGACCTCTGCC
TCCTACTGCCCTGCAGAGCGGGTGACCAACAACCGTGGGGACTTCAGGTGGCCCCGAACCTTGGCTGGCA
TCACGGCTTACCAGTCCTGTTTACAGTACCCCTTCACCTCTGTGCCCTTGAGTGGGGGAGCCCCGGGTAC
CCGAGCCTCACGCAGGTGTGACCGAGCTGGCCGCTGGGAGCCAGGGGACTACTCGCACTGTCTGTACACC
AATGACATCACTCGGGTGCTCTACACCTTTGTGCTGATGCCCATCAACGCCTCCAATGCATTGACGTTGG
CCCACCAGCTGCGAGTGTATACCGCAGAGGCCGCCAGCTTCTCAGACATGATGGACGTGGTCTATGTGGC
TCAGATGATCCAGAAGTTTTTGGGTTACGTTGACCAGATCAAGGAGCTGGTGGAGGTGATGGTGGACATG
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GCCAGCAACCTGATGCTGGTGGATGAGCACCTTCTGTGGCTGGCCCAGAGAGAAGACAAAGCCTGCAGTG
GCATTGTGGGTGCCCTGGAGCGAATCGGAGGAGCTGCTCTTAGCCCCCATGCCCAGCACATCTCTGTGAA
TTCAAGAAATGTGGCACTGGAGGCCTACCTCATCAAGCCTCACAGCTACGTGGGTCTGACTTGCACGGCT
TTCCAGAGGAGGGAGGTAGGAGTGTCGGGTGCACAGCCAAGCAGCGTCGGCCAGGATGCCCCAGTGGAGC
CCGAACCCCTAGCTGATCAGCAGCTTAGGTTCCGCTGCACCACTGGGAGGCCCAACATTTCTCTGTCATC
CTTCCACATCAAGAATAGCGTGGCCCTGGCCTCCATCCAGCTGCCCCCCAGCCTGTTCTCAACCCTTCCG
GCTGCCCTGGCTCCCCCAGTCCCTCCAGATTGCACCCTGCAACTGCTGGTCTTCAGAAATGGCCGTCTTT
TCCGCAGCCACGGCAACAACACTTCCCGTCCTGGAGCAGCTGGGCCTGGCAAGAGGCGTGGTGTGGCCAC
CCCAGTCATATTTGCAGGAACCAGTGGCTGTGGTGTGGGAAACTTGACGGAGCCCGTGGCTGTGTCACTG
AGGCACTGGGCTGAAGGAGCTGACCCCATGGCAGCTTGGTGGAACCAGGACGGGCCTGGAGGCTGGAGTT
CTGAAGGCTGCAGGCTCCGCTACAGCCAGCCCAACGTCAGCTCCCTGTACTGCCAGCACTTGGGCAATGT
GGCCGTGCTTATGGAGCTGAATGCATTCCCGCGGGAGGCAGGAGGCTCTGGGGCTGGGTTGCATCCCGTC
GTGTACCCCTGCACGGCTTTGCTGCTACTCTGTCTCTTCTCCACCATCATCACGTACATCCTCAACCACA
GCTCCATCCACGTGTCCCGGAAGGGTTGGCACATGCTGCTGAACCTTTGTTTCCATATGGCCATGACCTC
TGCTGTCTTCGTGGGGGGCGTCACGCTCACCAACTACCAAATGGTTTGTCAAGCGGTGGGCATCACTCTG
CACTACTCTTCCTTGTCGTCACTGCTCTGGATGGGGGTCAAGGCTCGAGTCCTCCACAAGGAGCTTAGTT
GGAGGGCACCCCCTCTGGAAGAAGGGGAAGCAGCTCCGCCTGGTCCTCGCCCCATGCTCCGGTTCTACTT
GATTGCTGGAGGGATCCCCCTCATAATCTGCGGCATCACCGCTGCGGTCAACATCCACAACTACCGGGAC
CACAGTCCCTATTGTTGGCTGGTGTGGCGTCCAAGCCTTGGTGCCTTCTACATACCGGTGGCGTTGATTC
TGCCTATCACCTGGATCTACTTCTTGTGTGCAGGCCTTCACTTACGGAGCCATGTGGCCCAGAATCCAAA
GCAGGGTAACAGGATCTCTCTGGAGCCAGGGGAAGAGCTGAGGGGTTCCACCAGGCTCAGGAGTAGTGGC
GTCCTCCTGAATGACTCTGGTTCTCTTTTGGCTACAGTTAGCGCAGGAGTAGGGACACCTGCGCCCCCAG
AGGATGGTGATGGCGTATATTCTCCTGGAGTCCAGCTGGGGGCGCTGATGACCACGCATTTCCTGTACCT
GGCTATGTGGGCTTGTGGTGCCTTGGCGGTGTCTCAGCGCTGGCTGCCCCGAGTGGTGTGTAGCTGTCTG
TACGGCGTGGCAGCTTCAGCTCTTGGTCTGTTTGTCTTCACTCACCACTGTGCCAGACGTAGAGATGTCC
GGGCTTCCTGGCGCGCCTGCTGCCCTCCTGCTTCGCCCTCGGCCTCCCATGTCCCAGCCCGGGCCCTGCC
GACTGCTACAGAGGATGGATCCCCAGTGTTGGGGGAGGGACCAGCCTCTCTCAAGTCCTCCCCAAGTGGC
AGCAGTGGCCGCGCGCCGCCACCCCCCTGCAAACTCACCAATCTGCAGGTGGCCCAGAGTCAGGTGTGCG
AGGCAAGCGTGGCCGCCCGCGGAGATGGAGAGCCAGAGCCCACCGGCTCCCGTGGCAGCCTAGCTCCCCG
GCACCATAACAACCTGCATCATGGGCGCCGAGTACACAAGAGTCGGGCCAAGGGGCACCGAGCCGGAGAG
ACTGGTGGTAAGAGCCGGCTCAAGGCGTTGCGCGCGGGCACGTCCCCAGGAGCTCCCGAGCTGTTGTCCA
GTGAGAGCGGCAGTTTGCACAACAGCCCGTCTGACAGCTACCCGGGCAGCAGCCGCAACAGTCCAGGCGA
CGGTCTTCCACTCGAGGGTGAGCCCATGCTTACGCCGTCGGAGGGCAGTGACACAAGCGCCGCGCCAATC
GCTGAGACGGGGCGCCCCGGGCAGCGCCGCAGCGCCAGCCGTGACAACCTCAAGGGCAGCGGCAGCGCGC
TGGAGAGGGAGAGCAAGCGCCGCTCCTATCCGCTCAACACTACCAGTCTTAACGGTGCCCCCAAAGGGGG
CAAGTATGAGGATGCCAGTGTAACTGGTGCAGAGGCCATAGCGGGAGGCTCCATGAAGACTGGCCTCTGG
AAAAGCGAGACCACCGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_054044

Insert Size: 4011 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).

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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_054044.2, NP_473385.2
RefSeq Size:	5520 bp
RefSeq ORF:	4011 bp
Locus ID:	78560
UniProt ID:	Q91ZV8
Cytogenetics:	8 A2
Gene Summary:	Endothelial receptor which functions together with RECK to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:25373781, PubMed:25558062, PubMed:28803732). 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 (PubMed:21071672, PubMed:21282641, PubMed:21421844, PubMed:25373781, PubMed:28288111). 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 (By similarity). 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 (By similarity). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (By similarity).[UniProtKB/Swiss-Prot Function]

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