

Product datasheet for MR212027

Adgrl3 (NM_198702) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrl3 (NM_198702) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adgrl3
Synonyms:	5430402I23Rik; CIRL-3; D130075K09Rik; Gm1379; LEC3; Lphn3; mKIAA0768
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212027 representing NM_198702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTGGCCACCACAGCTACTCATCCTCACGATGCTTTTAGCACCTGTAGTTCATGGTGGCAAGCACAATG
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CGTCATCATGATCGAGAGCGCCAACTACGGGAGGACCGATGACAAGATCTGTGACTCGGACCTGCTCAG
ATGGAGAACATTCGGTGTATCTGCCAGATGCCTATAAGATTATGTCTCAAAGATGCAATAACAGAACCC
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CCTGTCAGAGGGATTTCTACCACAGGATCCCTGGGTATGGGAAGCACGACCACCAGCACCACCCTCCGGA
 CCACAACCTGGAACATAGGCAGGAGTACCACCGCATCCTTGCCGGGCAGAAGAAACCGCAGTACCAGCAC
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR212027 representing NM_198702
 Red=Cloning site Green=Tags(s)

MWPPQLLILTMLLAPVVHGGKHNERHPALAAPLRHAERSPGGALPPRHLLQQPAAERSTAHRRQGPRGAA
 RGVRRGAPGAQIAAQAFSRAPIPMAVVRRELSCEYP IELRCPGTDVIMIESANYGRTDDKICDSDPAQ
 MENIRCYLPDAYKIMSQRNRTQCAVVAGPDPVFPDPCPGTYKYLEVQYECVPYKVEQVFLCPGLLKGV
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 PVRGISTTGSLMGSTTTSTLRTTTWNIGRSTTASLPGRNRSTSTPSPAVEVLDDVTTHLPSAASQIP
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 KKILKELTSNYIPSYLNNHERSSEQNRNMMNKL VNNLGSSEDDAIVLDDAASFNHEESLGLELIHEESD
 APLLPPRVYSTDNHQP HHYSRRRFPQDHSEFFPLL TDEHTEDLQSPHRDSL YTSMPALAGVPAADSVTT
 STQTEAAAAKGGDAEDVYYK SMPNLGSRNHVHPLHAYYQLGRGSSDGFVPPNKDGASPEGTSKGAHLV
 TSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9011_c12.zip

Restriction Sites: SgfI-MluI

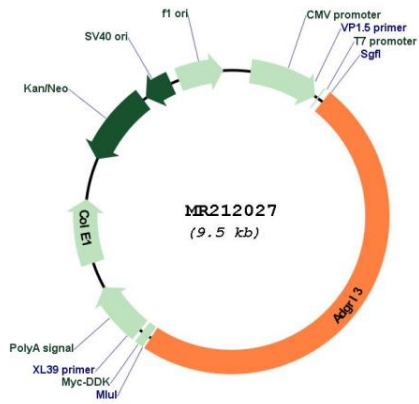
Cloning Scheme:



ACCN: NM_198702

ORF Size:	4629 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:	<ol style="list-style-type: none">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_198702.3
RefSeq Size:	5812 bp
RefSeq ORF:	4632 bp
Locus ID:	319387
UniProt ID:	Q80TS3
Cytogenetics:	5 D-E1
MW:	172.3 kDa
Gene Summary:	Plays a role in cell-cell adhesion and neuron guidance via its interactions with FLRT2 and FLRT3 that are expressed at the surface of adjacent cells (PubMed:22405201, PubMed:25728924, PubMed:26235031). Plays a role in the development of glutamatergic synapses in the cortex (PubMed:22405201, PubMed:24739570). Important in determining the connectivity rates between the principal neurons in the cortex (PubMed:24739570). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212027