

Product datasheet for **RR217639**

Adgrl2 (NM_001190475) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrl2 (NM_001190475) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adgrl2
Synonyms:	Cirl-2; Cirl2; Cl2ac; Lphn2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR217639 representing NM_001190475 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGTCTTCTGGTTGCAGAATGCGAAGTCTCTGTTTATCATGATAATCAGTTTCTCACGAATACCG
AAGTTTTAGCAGAGCAGCCTTGCCATTCGGGTTAGTTAGACGAGAGCTGCTGTGAAGTTATTCTAT
AGACCTGCGATGTCCGGGCAGTGACGTCATCATGATCGAGAGCGCAAACCTACGGTCGGACGGACGACAAG
ATCTGCGACGCAGACCCCTTTCAGATGGAGAACACAGACTGCTACCTCCCTGATGCCTTCAAATCATGA
CTCAAAGGTGCAACAACCGAACACAGTGTGTAGTATTACCGGGTCAGATGTATTTCTGATCCATGTCC
TGGAACCTACAAATACCTTGAAGTTCAATATGAATGTGTCCCTTACATGGAGCAAAAAGTTTTGTGTGT
CCTGGAACCTTGAAGCAATTGTGGACTCTCCAAGTATCTATGAAGCTGAGCAAAAAGGCAGGTGCTTGGT
GCAAGGACCCCTTCAGGCTGCAGATAAAATTTATTTTATGCCCTGGACTCCCTACCGCACCGATACCTT
AATAGAATATGCTTCTTTAGAAGATTTCAAACAGCCGCCAGACAACAACATACAACTTCAAACCGA
GTGGACGGTACTGGATTTGTGGTGTATGACGGGCAGTCTTCTCAACAAGAAAGAACGAGAAACATTG
TTAAATTTGACTTGAGGACTAGAATCAAGAGTGGGGAGGCCATAATCAACTACGCCAATACCATGACAC
TTCACCCTACAGATGGGGGGGAAGACTGACATTGACCTGGCAGTGGATGAAAATGGCTTGTGGGTATC
TACGCCACCGAGCAGAACAACGGAATGATCGTGATTAGCCAGCTCAATCCGTACACTCTCCGATTGGAAG
CAACCTGGGAGACGAGTATGACAAGCGTGCAGCGTCCAATGCTTTCATGATATGCGGGGTCTCTACGT
GGTCAGGTGAGTACCAAGACAATGAAAGCGAAGCTGGCAAGAAGCTCATCGACTACATTTACAACACA
AGGTTGAGCCGGGAGAGCAGTGGACGTTCCCTTCCCAACAGTACCAGTACATCGCTGCAGTGGATT
ACAACCAAGAGACAACCAACTCTACGTATGGAACAATAACTTTATCTTACGGTATTCTCTGGAGTTTGG
TCCACCCGACCTGCCAAGTGCCTACCACAGCTGTGACAATAACTTCTCAGCTGAGCTGTTCAAACCC
ACAGTGTCAACCAAGCAGTACTTACAGAGAGGCCCGTGAGCAGCACAGTCGCTGGTCTCAGGAAG
GAAGCCGAGGGACAAAGCCACCTCCAGCAGTCTCTACAACCAAAATTCCTCCTGTAACAAATATTTTCC
CCTGCCAGAGAGATTCTGCGAAGCGTTAGAAATGAAGGGGATAAAGTGGCCTCAGACACAAGGGGGATG
ATGTTGAGCGACCGTGTCCAAGGGAACAAGAGGAACGGCCTCGTATCTCTGCATGGCTTCCACAGGAA



[View online »](#)

CCTGGAACCCGAAGGGCCCGGATCTTAGCAACTGCACCTCTCACTGGGTGAATCAGCTGGCCCAGAAGAT
CAGAAGTGGAGAGAATGCTGCAAGTCTGGCCAACGAACTGGTAAAGCACCAAGGGGACGGTGTTCGCT
GGGGATGTGAGCTCCTCTGTGAGGCTGATGGAACAGTTGGTGGACATCCTGGATGCCAGCTGCAGGAGC
TGAAACCGAGCGAGAAGGACTCGGCCGGGAGGATTATAACAAGCTCAAAAACGAGAGAAGACATGCAG
GGCTTACCTTAAGGCCATTGTGGACACAGTAGATAACCTTCTGAGAGCCGAGACTTTGGACTGCTGGAAA
CACATGAATTCTCAGAGCAGGCGCACACGCCACCATGCTGTTGGACACCTTGAAGAAGGAGCATTG
TCCTGGCAGACAACCTTTTGAACCAACCCGGTCTCAATGCCAACGGATAATATTGTTCTAGAAGTCGC
TGTCTCAGCACGGAAGGACAGGTCCAAGACTTCACTTCCATCTCGGCTTCAAGGGGGCCTTCAGCTCC
ATCCAGCTCTCAGCCAACACCGTCAAGCAAAAACAGCAGAAAACGGGCTGGCAAAGTGGTATTTCATCATT
ACCGGAGTCTGGGACCATTCTGAGCACCGAAAAATGCGACCGTCAAACCTGGGCGCAGACCTCCTGGGTGC
GAACAGCACCATCGCAGTGAACCTGCACGTCCTTTTCACTCCATCAATAAGGAGTCCAGCCGTGTGTAC
TTGACAGACCCGGTGTCTTTTCAATGCCACACATTGATTCTGACAATATTTCAACGCAAACCTGCTCT
TCTGGAACACTCAGAGAGAACCATGATGGGATATTGGTCTACCCAGGGCTGCAAGCTGGTTGACACTAA
TAAAACCTGCACGACGTGTGCATGCAGCCACCTAACCAATTTTGTATTCTCATGGCCACAGGAAATT
GTGTACAAAGATGGCGTCCACAAATTGCTGCTGACAGTCAACCTGGGTGGGCATCGTTGTCTCCCTCG
TCTGCCTGGCTATCTGCATCTTACCTTCTGCTTCTTCCGAGGCTGCAAAGCGACCCGCAACACGATCCA
CAAGAACCTGTGTATCAACCTTTCATCGCTGAGTTTATTTTCTAATAGGCATTGATAAAAACAGTAC
ACGATTGCGTGGCCCGTGTTCAGGACTCCTGCACCTTTTCTTCTGGCTGCTTTTCTGGATGTGCC
TAGAAGGTGTGCAGCTCTACCTCATGTTGGTGAAGTTTTCGAGAGTGAATACTCAAGGAAGAAGTATTA
CTATGTGCGCCGGTACCTCTTCCCTGCCACAGTGGTGGTGTTCAGCTGCTATCGACTACAAGATTAC
GGGACACTAGAGGCTTGTGGCTTACGTTGATAACTATTTTATATGGAGTTTCATTGGGCTGTACTT
TCATCATTCTGCTAAATATTTTCTGGTGATCAGCTGTGCAAAAATGGTGAACATTCAAACACTTT
GAAACAGATTTAGCAGGTTGGAAAACATTAATAATTACCGTGTTCGATGACTATAATACGGAC
TTACCTGGGTCTTGGGTGCTCGGTGCGTTCGCCCTGCTGTGCTCCTGGGCTAACCTGGTCTTTGGGT
TGCTTTTTGTAAACGAGGAGACCGTTGTCATGGCTTATCTTCCACCGCTTTAATGCTTTCCAGGACT
GTTTATTTTCTTCCACTGTGCTCTTCAAAGAAAAGTACGAAAAGAGTATGCCAAGTGTTCAGACAC
TGGTACTGCTGTGGTGGCTCCCGACCGAGAGCCCGCACAGCTCTGTAAGGCGTCCACCTCCCGCACCA
GTGCTCGTACTCCTCTGGTACACAGAGCCGATAAGAAGGATGTGGAATGACACCGTGAGGAAGCAGTC
TGAATCGTCTTTATCTCAGGTGACATCAATAGCACTTCTACCCTAATCAAGGAATGACTGGCAATTAC
CTACTAACAAACCCTCTTCTCGACCCACGGCACTAACAAACCCCTATAACACATTGCTCGCTGAAACAG
TTGTATGTAATGCCCTTACGCGCCGTGTTAACTACCAGGACATTCCTGAACAATACCCGGGACAC
CAGCGCCATGGATACTCTACCGCTAAATGGTAACTTCAACAACAGCTACTCCCTGCGCAAGGCCACTAC
CACGACGGCGTGCAAGTTGTGGACTGTGGACTAAGTCTGAACGACACCGGTTTGAGAAAATGATCATT
CAGAGTTAGTGACAACAACCTCCGGGTAGCAACAAAACCCACAACCTTGGAGCTCAAGCTCCCGTTAA
ACCCGTGATTGGCGGCAGCAGCAGCAAGATGACGCGATCGTGGCCGACGCCCTACTTTGATGCACGGT
GATAACCCAGGGCTGGAATTCGCCACAAGAGCTGGAGGACCAGCTCATCCCTCAGCGGACTCACTCGC
TTCTGTACCAACCCAGAAAAAGTGAACCCGAGGCAACCGACAGCTACGTCTCCAGCTGACGGCCGA
GGCCGAGAGCACCTCCAGTCCCCAACAGAGACTCTCTGTACACGAGCATGCCAACCTAAGAGACTCT
CCCTACCCGAGAGCAGCCCGGACATGGCAGAGGACCTGTCTCCCTCAGGAGGAGCGAAGCAGGACA
TTTACTACAAAAGTATGCCAAATCTTGGGCTGGCCGCGAGTCCAGATGTGTACCAGATCAGCAGAGG
CAATAGCGATGGTACATCATCCCATTAAACAAGAAGGGTGCATCCAGAGGGGACGTCAGGGAAGGA
CAGATGCAGCTGGTAACAAGTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217639 representing NM_001190475
 Red=Cloning site Green=Tags(s)

```

MVSSGCRMRLWFIMIISFSPNTEGFSRAALPFGLVRRELSCEGYSIDLRCPGSDVIMIESANYGRTDDK
ICDADPFQMENTDCYLPDAFKIMTQRCNNRTQC VVVTGSDVFPDPCPGTYKYLEVQYECVPYMEQKVFVC
PGTLKAIVDSPSIYEAEQKAGAWCKDPLQAADKIYFMPWTPYRTDTLIEYASLEDFQNSRQTTTYKLPNR
VDGTGFVVDYDGVFFNKERTRNIVKFDLRTRIKSGEAIINYANYHDTSPYRWGGKTDIDLAVDENGWLVI
YATEQNNGMIVISQLNPYTLRFEATWETTYDKRAASNAFMICGVLVYVRSVYQDNESEAGKNVIDYIYNT
RLSRGEHVDVFPFNQYQYIAAVDYNPRDNQLYVWNNNFILRYSLEFGPPDPAQVPTTAVTITSSAELFKT
TVSTTSSTSQRGPVSSTVAGPQEGSRGTPPPAVSTTKIPPVTNIFPLPERFCEALEMKGIKWPQTRGM
MYERPCPKGTRGTASYLCMASTGTWNPKGPDLSNCTSHWVNQLAQKIRSGENAASLANELAKHTKGTVFA
GDVSSSVRLMEQLVDILDAQLQELKPSEKDSAGRSYNKLQKREKTCRAYLKAIVDVTVDNLLRAETLDCWK
HMNSSEQAHTATMLLDTLEEGAFVLADNLLPRTVSMPTDNIVLEAVLSTEGQVQDFTFHLGFKGAFSS
IQLSANTVKQNSRNLAKVVFIIYRSLGPFLSTENATVKLGADLLGRNSTI AVNSHVL SVSINKESSRVY
LTDPVLF SMPHIDSDNYFNANCSFWNY SERTMMGYWSTQGCKL VDTNKTRTT CACSHL TNFAILMAHREI
VYKDGVHKLLLT VITWVGIVVSLVCLAICIFTF CFFRGLQSDRNTIHKNLCINLFTAEIFLIGIDKTQY
TIACPVFAGLLHFFFLAAFSWMCLEGVQLYMLVEVFESEYSRKKYVYVAGYLPATVVGVSAAIDYKSY
GTLEACWLHVDNYFIWSFIGPVTFIILLNII FLVITLCKMVKHSNTLKPDSRLENINNYRVCDGYNTD
LPGSWVLGAFALLCGLL TWSFGLL FVNEETVVMAYLFTAFNAFQGLFIFIFHCALQKKVRKEYAKCFRH
WYCCGGLPTESPHSSVKASTSRTSARYSSGTQSRIRRMWNDTVRKQSESSFISGDINSTL NQGMGTGNY
LLTNPLLRPHGTNNPYNTLLAETVVCNAPSAPVFN SPGHSLNNTDRDTSAMD TPLPLNGFNNSYSLRKADY
HDGVQVVDCCGLSLNDTAFEKMIISELVHNNLRGSKNTHNLELKL PVKPVIGGSSSEDDAIVADASSLMHG
DNPGLFRHKELEAPLIPQRTHSLLYQPQKKVKPEATDSYVSQLTAEADEHLQSPNRDSL YTSMPNLRDS
PYPESSPDMAEDLSPSRSENEIDYYKSMPLNLAGRQLQMCYQISRGNSDGYIIPINKEGCIPEGDVREG
QMQLVTSL
  
```

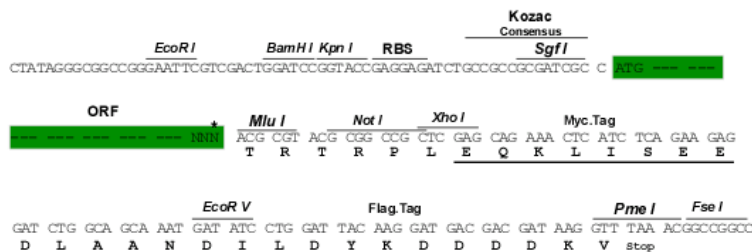
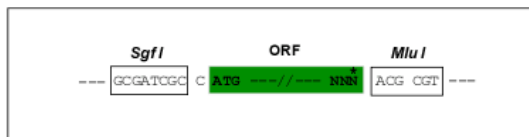
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

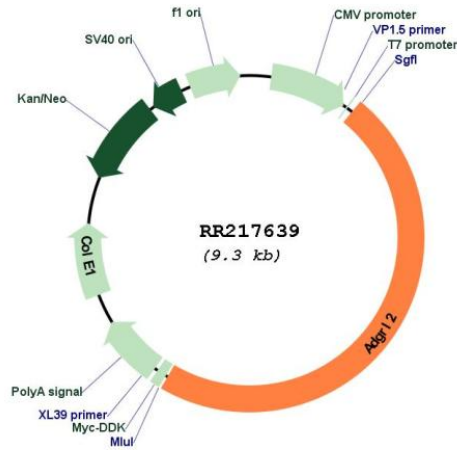
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001190475

ORF Size: 4434 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_001190475.2](#), [NP_001177404.2](#)

RefSeq Size: 6255 bp

RefSeq ORF: 4437 bp

Locus ID: 171447

UniProt ID: [O88923](#)

Cytogenetics: 2q45

MW: 165.7 kDa

Gene Summary: low affinity G-protein-coupled receptor for alpha-latrotoxin [RGD, Feb 2006]