

Product datasheet for MR221236

Pcdha9 (NM_138661) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdha9 (NM_138661) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdha9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221236 representing NM_138661, codon optimized . Due to the complexity of NM_138661, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTGGGGAACAGACCGGAGGATATCCGGACGTGTGTGCACCTGAGATGGCACATCCACGGCCTCC
TTAGGCAGGAGAATGCTTCCGTCGTGATCTCAAATGTCTGCGCCACGGAGCCTGGCGCCTCCTTCTGTG
GCTTCTCCTGCTCGCCACTTGGGACGTGGGAAGTGGCCAACTGCACTACTCCGTGCCTGAAGAGGCGAAG
CATGGTACCTTTGTCGGACGAATTGCACAGGATCTTGGCCTGGAGCTTGCCGAACCTGTCCCCAGACTGT
TCCGGGTGGTGTCCAAGGATAGGGGAGATTTGTTGGAGGTCAACCTGCAAACGGGATCCTTTTCGTAA
CAGCAGGATCGATCGAGAGGAGCTGTGCGGTGAGAACCGCAATGCAGCATCCACCTGGAGGTGATCGTC
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CCTGCTCATCCAGGTGTTGGACGTGAACGATAATGCACCGGTGTTTCGATAGATCTGTCTATGAGGTGAAG
ATGTACGAGAATCAGGAGAATAAACTTTGGTATCTGGCTGAACGCGACCGACTCTGACGAGGGAATAA
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ATGACAATGCCCTGAGATTGTGTTGACGAGCCTGTCCCTTCCCGTAAAAAGAGGACGCGCGCTTGCTC
CGTGATTGCACTTATCAGTGTATCTGATAAGGACTCTGGCGTTAACGGTCAGGTGACATGCAGCCTGACC



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AATCACGTACCTTTTAAGCTGGTGAGCACTTCAAGAATTATTATTCTTGTGCTGGACAGCGCTCTCG
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 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221236 representing NM_138661
 Red=Cloning site Green=Tags(s)

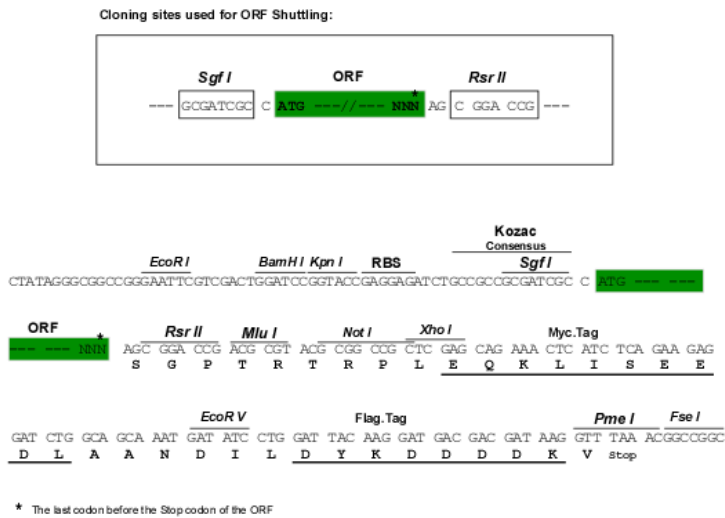
MRLGNRPEDIRTCVHLRWHIHGLLRQENASVVISKCLRHWAWRLLWLLLLATWDVGSQQLHYSVPPEAK
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 DRPLQVFHVEVEVRDINDNPIIFSVAEQKILVAESRLLDSRFPLEGASDADVGENSMLTYKLSSNEFFIL
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 MYENQENKTLVIWLNATDSDEGINKEVEYSFSSLASSIIRQKFLINEKTGEIKINGAIDFEESN NYEIHV
 DATDKGYPPMVAHCTV LVEILDENDNAPEIVL TSLSLPVKEDAPLGSVIALISVSDKDSGVNGQV TCSLT
 NHVFPKLVSTFKNYSLV LDSALDRETTADYKVVVTARDGGSPSLWATASVSVEVADVNDNAPAF AHPEY
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 LQFQVSARDAGVPALGSNVTLQVFVQDENDNPPTLLGHQSGGPAGEFSQLVSRVSVGAGHV VSKVRAVDAD
 SGYNAWLSYELHPTVGARSPFRVGLYTG EISMTRALDESDLPRQRLLVLVKDHGEPMLIATATV LVSLVE
 NGQVPKASSQGLPNSSRREASLMDVNVYLIIAICAVSLLVLTLLLYTALRCSAVPMQAGCGLGKPTLVC
 SSAVGTWSYSQQRQQRVCSGEGPPKTDLMAFSPSLTPCPVAEVGMESH SVGGDVP GKPRQPNPDWRYAS
 LRAGMHSSVHLEEAGILRAGPGPDQQWPTVSSATPEPEAGEVSPVVGAGVNSNSWTFKYGPNPKQSGP
 GELPKFIIPGSPAIIISIRQEPANNQIDKSDFITFGKKEETK KKKKKKKGNKTQEKKKGNSTTDNSDQ

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_138661

ORF Size: 2937 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.

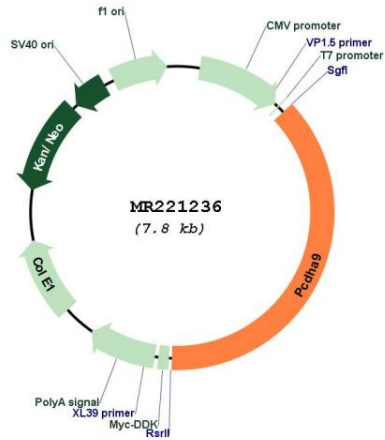
RefSeq: [NM_138661.1](#), [NP_619602.1](#)

RefSeq Size: 5341 bp

RefSeq ORF: 2940 bp

Locus ID: 192161
UniProt ID: [Q91Y11](#)
Cytogenetics: 18 B2- B3
MW: 106.8 kDa
Gene Summary: Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221236