

Product datasheet for **RR202877**

Pcdhga1 (NM_001037140) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcdhga1 (NM_001037140) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcdhga1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR202877 representing NM_001037140
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGATTCCAGAGAAGCTAACCGGTTGGAGCCTGCTGATGCTGCTGTGCCTTTCTCTGGAGCTACTGT
 TGGAAAGCTGGGGCTGGAACATCCGATACTCCGTGCCAGAAGAAACCGACAAAGGCTCCTTCGTGGGCAG
 CATCGCCAAGGACCTGGGACTGGAACCCGGGAGCTGGCGGAGCGCAGGATCCGCATCGTCTCCAGAGGT
 AGGTGCGCAGCTTTTCTCCCTGAACCCGCGAAGCGGCAGCTTGGTCACCGCGGCAGGATAGACCGGGAAG
 AGCTGTGCGCTCAGAGCGTGCCGTGTGCTGAGCTTTAACATCCTTATGGAGGATAAAGTAAAGCTTGT
 CCCTATCGAAGTAGAGATAATTGATATCAATGACAACACTCCCAATTCCAGTTAGAAGAGCTAGAATTA
 AAAATGAGTGAATAACGACCCAGGTACCAGGATCCCTTTGCCTCTCGGCAAGACCTGGATGTGGGTA
 TAAATTCACTTCAGAGCTACCAGCTAAGCGCAACCCCTCACTTCTTCTGGATGTGCAACAGGGACCTGA
 TGGACCACAACAGCCGGAGATGGTACTGCAGAGACCTCTAGACAGAGAAAAGATGCTGTTACCTACCTG
 ATCCTCACTGCCTCTGATGGGGCAACCAATACATTCAGGGACTTTGCAAATTCATGTTAGGTGGTAG
 ATGTGAACGACAACCCACCAGCATTACTCAGGACAGATACACGTGAGAGTCCCTGAGAACGTTCCATT
 AGGCACCTCGGCTTCTCAAGGTGAATGCCTTGACCCGGATGAGGGAGCTAATGGCAGAGTAACTACTCC
 TTTCAATGTAGACCACAGCGTGGTCCGGAATTTCAAGTTGGATTCTTACACAGGAGAATATCGAATA
 AAGAACCCTAGACTTTGAAGAATACAAAGTTTATCCAATGGAATTCAGCTCAGGATGGTGGTGGACT
 CATGGCCAGAGCGAAGGTGCTGGTCACTGTTTTGGATGTTAATGATAATGCCCAAGAAATGGAGTCAGC
 TCTGTAACACCACAATACCAGAAAACCTTCTCCTGGGACCATAGTTGCTCTCATCAGTGTGCATGATC
 AAGACGCTGATGACAATGGTCACACCATTGTTCCATTCTGGCAACCTACCCTTTAAACTGGAAAAGTT
 AGTGGACAATTATTACCGCTTAGTAACAGAAAAGAACACTGGACAGAGAACATAGCTCTAGGTACAACATC
 ACAATAACAGCAACAGATCAGGGAACCTCACCCCTATCTACCCAGGCTCACATCTCACTGCTAGTGACAG
 ATATCAATGACAACCCCTCAGTTTTCGAACAGGACTCCTATTCTGTCTACATCCCTGAAAACAACCCAG
 AGGGGCTTCCATCTTCTCAGTAAAGGCCAGGATGCTGACCACAATGAGAATGCTCTAGTGACTTACGCC
 CTGGTGGAAAGACTATTACAGGAGTACCTTTGTCTTCTATTCTCCATCAACTCTGACTGAGGTTG
 TCTATGCACTGCAATCCTTTGACTATGAGCAGTTTCGAGATTTGCAGCTAAGAGTGATGGCCGTGATAG
 TGGGAACCCACAACCTCAGCAGCAATGTATCTCTGAGTCTATTTCATGATAGATCAGAAAGCAACGCCCA
 GAGATCCTGTACCCTGTCTCCCACTGATGGCTCCACTGGTGTGGAGCTAGCACCTCGATCTGCCGAGC
 CCGGTTACCTGGTGACCAAGGTAGTAGCAGTAGACAAAGACTCAGGACAGAACTCCTGGCTGCCTACCG
 TCTGCTCAAAGCCAGCGAGCCAGGGCTCTTCTCGGTGGGGCTGCACACAGGTGAGGTACGCACAGCTCGG
 GCCCTGTGGACAGAGATGCTCTCAAACAGAGCCTGGTGGTGGCTGTGCAGGACCACGGCCAGCCTCCTC
 TGTCACCACAGTCACATTTACTATAGCAGTGGCTGACAACATCCCTGACCTCCTGGCTGACCTGGGCAG
 CATTGGGACCCCTGCTGACCCCAAGGATTCAGATCTCACACTCTACCTGGTGGTGGCAGTGGCCGTAGTC
 TCCTGCATCTTCTAGCCTTTGTAATAGTGCTCTTGGTGTCAAGCTGCGACATTGGCACTCCTCACGCT
 TGCTCCAGACTGCAGCAATGGACTGACTGACCTGCCACCTCCAATTTGTAGGTGTTGATGGGTACA
 TGCATTTCTACAGACCTATTCCCATGAGATCTCACTCACTGCTGACTCTCGTAAGAGCCACTTGATCTTC
 CCGCAACCCAACTACGCAGACACACTCATCAGCCAAGAGAGCTGTGAGAAAAAAGAATTTCTGTACGCAC
 CACAGTCTCTGCTTGAAGATAAAGAGGAAATATTTTCTCAGCAAGCCCGCCCAACTGACTGGCGTTT
 CTCTCAAGCCAGAGACCCGGCACGAGCGGATCCCAAAATGGGGATGAAACCGGCACCTGGCCCAACAAC
 CAGTTCGATACAGAGATGCTGCAAGCCATGATCTTGGCTCTGCCAGTGAAGCCGCTGATGGGAGCTCCA
 CTCTGGGAGGGGGCACTGGCACTATGGGTTTGGCGCTCGATATGGACCCAGTTTACCCTGCAGCACGT
 GCCTGACTACCGCCAGAACGTGTACATCCCTGGCAGCAATGCCCACTGACCAACGCAGCTGGCAAACGA
 GATGGCAAGGCTCCGGCAGGCGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAAGAGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RR202877 representing NM_001037140
 Red=Cloning site Green=Tags(s)

MAIPEKLTGWSLMLLCLSELELLLEAGAGNIRYSVPEETDKGSFVGSIAKDLGLETRELAERRIRIVSRG
 RSQFLFSLNPRSGSLVTAGRIDREELCAQSVPCVVSFNILMEDKVKLVPIEVEIIDINDNTPQFQLELEL
 KMSEITTPGTRIPLPLGQDLVGINLSQSYQLSANPHFLDVQQGPDGPQPEMVLQRPLDREKDAVHYL
 ILTASDGGNPIHSGTLQIHVQVVDVNDNPPAFTQAEYHVRVPEVPLGTRLLKVNASDPDEGANRVTYS
 FHNVDHSVVRKFLDSYTGELSNKEPLDFEYKVPMEIQADGAGLMARAKVLVTVLDVNDNAPEIGVT
 SVTTTIPENFPFGTIVALISVHDQDADDNGHTTCSIPGNLPFKLEKLVNYYRLVTERTLDREHSSRYNI
 TITATDQGTPLSTQAHISLLVTDINDNPPVFEQDSYSVYIPENNPRGASIFSVKAQDADHNENALVTYA
 LVEDTIQGVPLSSYFSINSDTGVVYALQSFQDYEQFRDLQLRVMARDSGNPQLSSNVSLSLFMIDQNDNAP
 EILYPVLPDGTGVELAPRSAEPGYLVTKVVAVDKDSGQNSWLSYRLLKASEPGLFSVGLHTGEVRTAR
 ALLDRDALKQSLVVAQDHGQPPLSTTVFTIIVADNIPDLLADLGSIGTPADPQSDLTLYLVVAVAVV
 SCIFLAFVIVLLVLKLRHWSSRLQTAANGLTDLPTSNFVGVDGVHAFMQYSHEISLTADSRKSHLIF
 POPYADTLISQESCEKKEFLSAPQSLLEDKEEIFSQAPPNTDWRFSQAQRPGTSGSQNGDETGTWPNN
 QFDTEMLQAMILASASEAADGSSTLGGGTGMGLSARYGPQFTLQHPDYPYRQNVYIPGSNATLTNAAGKR
 DGKAPAGNGNKKKSGKKEKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

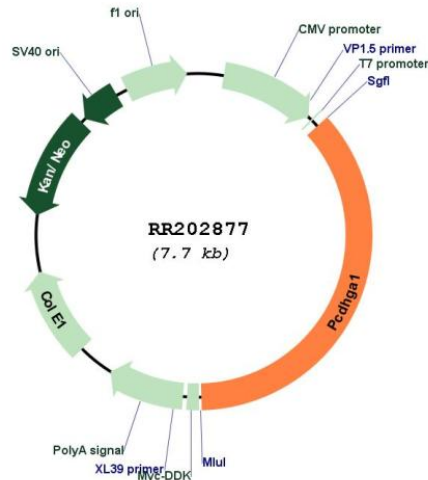
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001037140

ORF Size: 2793 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_001037140.1](#), [NP_001032217.1](#)

RefSeq Size: 4548 bp

RefSeq ORF: 2796 bp

Locus ID: 553129

Cytogenetics: 18p11

MW: 101.6 kDa