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Product datasheet for RR202985

Cdh1 (NM_031334) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh1 (NM_031334) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR202985 representing NM_031334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGCCCGGTGCCGCAGCTTCTCCGCGCTCCTGCTCCTGCTGCAGGTCTCCTCGTGGCTTTGTCAGC
AGCCGGAGTCGGAGTCTGACTCCTGCCGTCCCGGCTTCAGTTCCGAGGTCTACACCTTCCTGGTGCCGGA
GAGGCACCTGGAGAGAGGCCACATCCTGGGCAGAGTGAAATTTGAAGGATGCACCGGCCGTCCAAGGACA
GCCTTCTTTTCTGAAGACTCCCGATTCAAAGTGTCTACAGATGGCGTCATCACAGTCAAACGGCATCTAA
AGCTTCACAAGCTGGAGACCAGTTTTCTCGTCCATGCCTGGGACTCCAGTTACAGGAAGCTTTCTACCAA
AGTGACACTGAAGTCCCTGGGCCACCACCACCACCGGCATCACCACAGAGACCCTGTCTCTGAATCCAAC
CCAGAGCTGCTCACGTTTCCCAGCTTTCACCAGGGTCTGAGAAGACAGAAACGAGACTGGGTCATCCCTC
CCATCAACTGCCCGGAAAATCAAAAGGGCGAATTCCCCCAGCGACTGGTTCAGATCAAATCCAACAGGGA
CAAAGAGACAACGGTTTTCTACAGCATCACCGGCCCAGGAGCTGACAAACCCCCTGTTGGCGTTTTCATC
ATTGAGAGGGAGACAGGCTGGCTGAAAGTGACGCAGCCTCTGGACAGAGAAGCCATTGACAAGTACCTTC
TCTACTCTCATGCTGTGTCATCAAATGGGGAAGCCGTGGAGGATCCCATGGAGATAGTGGTCACAGTCAC
AGATCAGAATGACAACAGGCCAGAGTTTATCCAGGAGGTCTTTGAGGGATCTGTTGCAGAAGGCGCTCTT
CCAGGAACCTCCGTGATGCAGGTCTCAGCCACTGATGCAGACGATGACATAAACACCTACAATGCTGCCA
TCGCCTACACCATCCTCAGCCAAGATCCTGAGCTGCCTCACAAAAACATGTTCACTGTCAACCGGGACAC
TGGGGTCATCAGTGTGGTCACCTCCGGACTGGACCGAGAGAGTTACCCTACATATACTCTGGTGGTTCAG
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TGCCACACTCAAGGTGACTGATGATGATGCCCCCAACACTCCAGCGTGGAATGCTGTGTACACCGTAGTC
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GGGGTCTCTTGTCCCTTCCACAGCCACTGTCACCGTGGATGTGGTAGACGTGAATGAAGCCCCCATTTTT
GTGCCTGCGGAGAAGAGAGTCGAGGTGCCTGAGGACTTTGGTGTGGGTCTGGAGATCGCATCTTACACTG
CGCGAGAGCCAGACACATTCATGGAACAGAAGATCACGTATCGGATTTGGAGGGACACTGCCAATTGGCT
GGAGATTAACCCAGAGACTGGGGTCATTTCCACTCGGGCTGAGATGGACAGAGAAGATTCGGAGCATGTG
AAGAACAGCACGTATACAGCTCTCATCATTGCCACAGATGATGGTTCACCCATTGCCACTGGCACAGGGA
CTCTTCTCCTGGTCCTGTCAGACGTCAACGACAATGCTCCCATCCCAGAACCTCGAAATATGCAGTTCTG
CCAGAGAAACCCGAAGCCCCATGTCATCACCATCTTGGATCCAGACCTTCCCCCAAACACATCCCCCTTC
ACTGCAGAGCTCACCCATGGGGCCAGCGTCAACTGGACCATTGAGTACAATGACGCAGAACAAGAATCTC
TCATTTTGCAACCAAGAAAGGACTTAGAGATTGGCGAATACAAAATCAATCTCAAGCTCTCGGATAACCA
GAATAAAGACCAGGTGACCACGTTGGAGGTCCACGTGTGTGACTGTGAAGGGACCGTCAACAACTGCATG
AAGGCGATCTCCCTGGAAGCAGGATTACAAGTTCCCGCCATCCTTGGAATCCTGGGAGGGATCCTGGCCC
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TTTGATTTGAGCCAGCTGCACAGGGGCCTTGATGCCAGACCGGAAGTGATTCGAAATGATGTGGCTCCCA
CCCTCATGAGCATGCCCCAGTATCGTCCCCGTCCAGCCAATCCTGATGAAATCGGGAACTTCATCGATGA
AAACCTGAAGGCAGCGGACAGTGACCCCACAGCGCCCCCTTACGACTCTCTGTTGGTGTTTGACTATGAG
GGGAGTGGTTCTGAAGCTGCCTCCCTGAGCTCGCTGAACTCCTCTGAGTCAGATCAGGACCAGGACTACG
ATTATCTGAACGAATGGGGCAACCGGTTCAAGAAGCTGGCCGATATGTATGGTGGCGGCGAAGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RR202985 representing NM_031334
Red=Cloning site Green=Tags(s)

MGARCRSFSALLLLLQVSSWLCQQPESESDSCRPGFSSEVYTFLVPERHLERGHILGRVKFEGCTGRPRT
AFFSEDSRFKVSTDGVITVKRHLKLHKLETSFLVHAWDSSYRKLSTKVTLKSLGHHHHRHHHRDPVSESN
PELLTFPSFHQGLRRQKRDWVIPPINCPENQKGEFPQRLVQIKSNRDKETTVFYSITGPGADKPPVGVFI
IERETGWLKVTQPLDREAIDKYLLYSHAVSSNGEAVEDPMEIVVTVTDQNDNRPEFIQEVFEGSVAEGAL
PGTSVMQVSATDADDDINTYNAAIAYTILSQDPELPHKNMFTVNRDTGVISVVTSGLDRESYPTYTLVVQ
AADLQGEGLSTTAKAVITVKDINDNAPIFNPSTYQGQVLENEVGARIATLKVTDDDAPNTPAWNAVYTVV
NDPDHQFTVITDPKTNEGILKTAKGLDFEAKQQYILHVTVENEEPFEGSLVPSTATVTVDVVDVNEAPIF
VPAEKRVEVPEDFGVGLEIASYTAREPDTFMEQKITYRIWRDTANWLEINPETGVISTRAEMDREDSEHV
KNSTYTALIIATDDGSPIATGTGTLLLVLSDVNDNAPIPEPRNMQFCQRNPKPHVITILDPDLPPNTSPF
TAELTHGASVNWTIEYNDAEQESLILQPRKDLEIGEYKINLKLSDNQNKDQVTTLEVHVCDCEGTVNNCM
KAISLEAGLQVPAILGILGGILALLILILLLLLFLRRRTVVKEPLLPPDDDTRDNVYYYDEEGGGEEDQD
FDLSQLHRGLDARPEVIRNDVAPTLMSMPQYRPRPANPDEIGNFIDENLKAADSDPTAPPYDSLLVFDYE
GSGSEAASLSSLNSSESDQDQDYDYLNEWGNRFKKLADMYGGGEED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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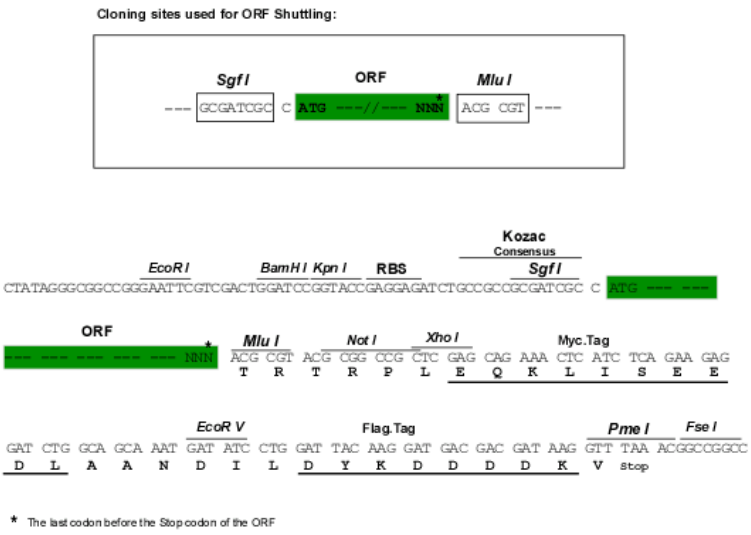
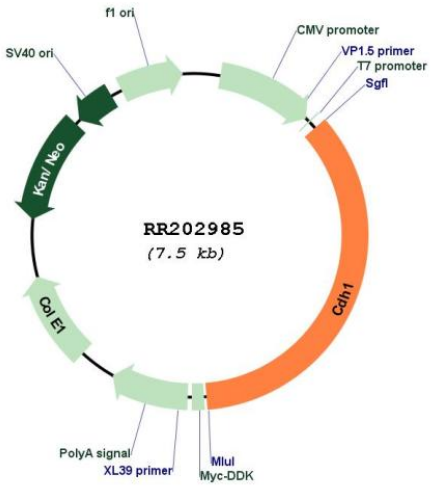
Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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ACCN:	NM_031334
ORF Size:	2658 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_031334.1, NP_112624.1
RefSeq Size:	4396 bp
RefSeq ORF:	2661 bp
Locus ID:	83502
UniProt ID:	Q9R0T4
Cytogenetics:	19q12
MW:	98.7 kDa
Gene Summary:	cell-cell adhesion molecule; may play a role in axonal growth and synase formation [RGD, Feb 2006]

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