

Product datasheet for **RR217414**

Cd101 (NM_001271217) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd101 (NM_001271217) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd101
Synonyms:	Igsf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR217414 representing NM_001271217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAGCATCCTGTGTGGCATCTCTTTCTCTGTCTAACTAAGCTCAGCATCAGCCAGAGGGAAG
TAAAAACAAGAAGGACCTCTGTACAGAACCGAAGTTACCCTGTCAGCATCAGTTGCAACGTAAGTGG
TCATCGGGTCTCTACACAGGATTTCCAGTGGTCTATTTACCTGCCAAGTGCCCGACCCAAGAAGTC
CAGATCATCAGTTCCAAGGATGCCGGCTTCTCTTACACCATGTATGCCCGAGGGTGAGAGCAAGGAGA
TCTATGTAGAGAGGCTGCGGGGCAACTCGGTCTGCTGCGTTTCTCGAACTCCAGATGAAGGATACTGG
CGAGTATGAGTGCCACACACCAACACGGACGGAAAGTACTTTGGAAGTTACAGTGCAAAGACATATCTA
ACTGTGATTTCCGACACCCTGTCTGCCACCATGCCCTCCAGACACTCGGTAAGAAGGAAGGCGAGCCGT
TGGAACTCACCTGCGAGGTGACCAAGCCACGACTCAACATACCCATCTCTCCCTCACCTGGTACCTGAC
GCAGGAAGGAGGGAGCCACGCCACCCAGATCATTTCTCTCCAAGGATTTTATATTGACCCCTGGG
CCCTCTACACAGACAGATTTGTGGCCGGCGATGTACGGCTGGACAAGCTTGAGCCACTTTCTTCAAAC
TGCCATAGGCAAGCTCCAGCTCTCAGATCAAGGCCATGTGTTCTGCGAGGCCACAGAGTGATTACAG
TCCAGATGAAGCATGGACTTTGATCACAAGAAAGCAGACAGATCAACAGCTCTGAAGATCCAGCCAACA
GCAAGAGATTTTGAAGTGAGCATCACGGCCAGCAGCTCCCTGATGAAGGAAACCTTGAACTGGTCT
GCCTGGCTGTCGGCAGAGGAGGTGACCCACAGCTTCAAGGACTTGGTTCCTCGATGGGAAGGAAATTGC
CCAGATTGATGCTCGCGGATCTGGATCTGAAGAGAGACTACAGAGACAGAGCAAGCCAAGGACAGCTG
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CCTACACTGTGAAGTGGCAGAGGTGGTGAAGGACTCAGACAGCCTCCTGGCAGGACTTTCAGAGAAAGCA
GTCAGTAGGCCACCCAGTGCAGCTGAGGGAGCCGGCAGCAAGAAGTGTGACCGTGTCTGCAGAGCAGCGT
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GCAGCCAGGAGTCTTTCTCCCGCCCTGGGTACCATGGTAACAGGAGGTTGGAGAAAGTGGACTGGCC
ACCTTTCGGTGGAGATTGCTTCTGCCACGGTACAGACAGCGGTAATGATGCAGAGTGCAGAGA



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GACCCAGAACCAGGCCAAAGATTTGCAGTCAACCCAGAAGATTTTCAGTCACAGTAAAATCTCTGAAATC
 AAGTTTGCAGTTAATCTGATGAGCCGGCAGCCACAAGTGATGTTAGCCCATACCTTCGACCTGTCTTGT
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 TGGTACTCCGGGTGCTGCGCTCAGAGTCCACGTTCTTCCCAGTCTGCTCCTCTGGACCTTACTCCA
 CTTCTCGTCGTGCCCCCTTCTCATGTTGCTCTTCTATTACGTCCTGCCTCTGCTTGTACTGGAAG
 GCCAGGAAGTTGTGACAGCTGAGTCTCAGTTCGAAGAAAGAAAGGCTCTTTGGGTGGGCATGAGGAGGA
 CATCACTTCAGAAGGAAGGAGGAGGAGGGTGAAGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>RR217414 representing NM_001271217
 Red=Cloning site Green=Tags(s)

MASILCVASLFLCLTKLSISQREVKIQEGPLYRTEGYPVSI SCNVSGHRGPSTQDFQWSIYLP SAPTQEV
 QIISK DAGFSYMYARRVQSKEIYVERLRGNSVLLRF SKLQMKDTGEYECHTPNTDGKYFGSYS AKTYL
 TVIPDTLSATMPSQTLGKKEGEPELETCEVTKATTQHHTLSL TWYLTQE GGGSHATEIISL SKDFILTPG
 PSYTRDFVAGDVRLDKLGATFFKLSIGKLQLSDQGHVFCEATEWIQDPDEAWTLITRKQTDQTALKIQPT
 ARDFEVSITASSPDEGKPLELVCLAVGRGGDPQLQGTWFLDGKEIAQIDARGILD LKRDRDRASQGQL
 QVSKLSAQTFSLKIFSVGPEDVGAYTCEVAEVVRTQTASWQVLQRKQSVGHPVQLREPAARSVTVSAEQR
 AVWEGETVTL LCKAAGDAAALSVSWWLPQDQTPV FVAGMGQDGI VQPGVSSPGPGYHGNNRLEKVDWA
 TFRLEIASATVTD SGTYE CRV SERPQNQAKDLQSTQKISVTVKSLKSSLRVNLM SRQPQVMLAHTFDLSC
 IVRANYS DLKLPFSVMWQFQPAGSGAFHQLIRVTHDGRVEWGD TLPQLHRKTKVSQSFFRSQLQIHDAAM
 EETGVYRCEVEVYDRNSVCTSGPARVSATSNLLMITVTFPESKLRVNSSSQVQELTISSTQIECAILSR
 SAGNLP LSI IWYFSP I STNASHLKILEMDQTNVVKY GDEFQTPRSKQKFYSEKVSQDLFLNLSMEDSD
 QGCYHCAVEEWLLSTNGTWQKLERKTSGLTELKLRPTGSQVHVSKVSWKGNATEYGEAGFSCSLDGPST
 SSLYSVTWYWSKGTAVDGSQMLVHLQYDGLLQYQEGSRKLLDCYRSSSTDFVLKLRVEMEDAGIYWCR
 VAEWQQYGHGPKWINQASDESQRMVLRVLRSESTFSSRICSSGPLLHFLVVC PFLMLLLFTSCLCLYWK
 ARKLSL SLSKKEKALWGMRR TSLQKEGGE EGEY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

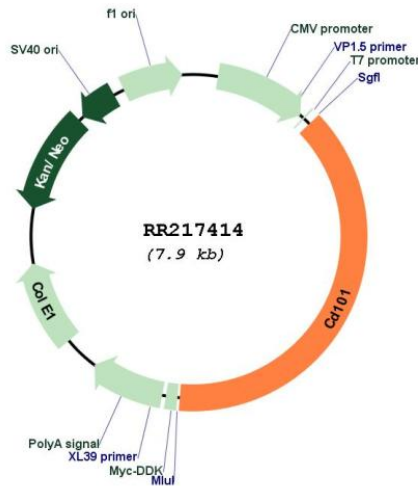
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271217

ORF Size: 3051 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:	<u>NM_001271217.1</u> , <u>NP_001258146.1</u>
RefSeq Size:	3122 bp
RefSeq ORF:	3054 bp
Locus ID:	310727
Cytogenetics:	2q34
MW:	113.3 kDa