

Product datasheet for **RR202727**

Cd44 (NM_012924) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd44 (NM_012924) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd44
Synonyms:	CD44A; METAA; RHAMM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR202727 representing NM_012924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAGGTTTGGTGGCACACAGCTTGGGACTACTTTGCCTTTACAGTTGAGCCTGGCACAGCAGC
 AGATCGATTTGAATATAACCTGCCGTTACGCAGGTGATTCCATGTGGAGAAAAATGGCCGCTACAGTAT
 CTCAGGACTGAAGCAGCTGACCTCTGCGAGGCTTTCAACACCACCTTGCCACCATGGCTCAGATGGAG
 TTAGCCCTGAGAAAGGGTTTGAACATGCAGGTATGGTTTCATAGAAGGACACGTGTAATCCCGAGGA
 TCCACCCCAACGCTATCTGTGCAGCCAACAACACAGGAGTGTATATCCTCCTCGCATCCAACACCTCCCA
 CTATGACACATATTGCTCAATGCCTCAGCTCCTCTTGAAGAAGACTGTACATCAGTCACAGACCTACCC
 AATTCCTTCGATGGACCAGTTACCATAACTATTGTCAACCGTGATGCCACCCGCTACAGCAAGAAGGGCG
 AGTATAGAACACACCAAGAAGACATCGATGCCTCAAACATTATAGATGAGGATGTCAGCAGTGGATCCAC
 CATTGAGAAGAGCACCCAGAAGGCTACATTTTGCACACCGACCTTCCCACTTCACAGCCTACTGGAGAC
 CGGGATGACGCCTTCTTTATTGGGAGCACCTGGCCACCATTTGCCTCAACTGTGTACTCAAAAAGCCATG
 CAACAGCTCAGAAACAAAATAACTGGATATGGTCTTGGTTTGGTAATTCACAATCCACAACCTCAGACTCA
 GGATAGCCCCACAACAACAGCAACTACAGCCTTGATGACTACCCCTGAAACACCACCAAGAGGCAAGAA
 GCCCAGAACTGGTTTTTCATGGTTTTTCAACCATCAGAGTCCAAGAGTCACTTTCATACAACAACGAAGA
 TGCCTGGTACGGAGTCAAATACCAACCCAAACAGGCTGGAAGCCAAATGAGGAAAAATGAAGATGAAACAGA
 CAAATACCCCAATTTTTCTGGATCAGGCATTGATGATGATGAAGATTTTATCTCCAGCACCATTGCAACT
 ACTCCATGGGTTTCTGCCACACAAAACAGAACCAGGAACGGACCCAGTGAACCCAATCCATTCAAACC
 CAGAAGTACTACTTCAGACAACCACAGGATGACTGATATAGACAGAAACAGCACCAGTGCATCGGAGA
 AAAGTGGACCCAGGAACCCACAGCCTCCTTCAATAACCATGAGTATCAGGATGAAGAGGAGACCCACAT
 GCTACAAGCACAACTGGGCAGATCCTAATAGCACAAACAGAAGAAGCAGTACCCAGAAGGAGAAGTGGT
 TTGAGAATGAATGGCAGGGGAAGAACCACCCACCCCAAGTGAAGACTCCCATGTGACAGAAGGGACAAC
 TGCCTCAGCCACAACAACCATCCAAGTCAAAGAATGACAACACAGAGTCAAGAGGATGTTTCATGGACC
 GATTTCTCGACCAATCTCACATCCAATGGGACAAGGTCATCAAACAGAAAGCAAGGATACAGGCTCCA
 GTCATAGTACAACCTTCAGCCTACTGCGGCTCCAAATACCCATTTGGTGAAGACTTGAACAGGACAGG
 ACCACTTTCAGTGACAACCTCCACAGAGTATTCTCAGAACTTCTCTACATTACCTGGAGAGCTGGAAGAA
 GGCGAAGACCATCCAACAACCTTCTGTTCTGCCATCTAGCCTAAGAGTGGTGAAGAAGAGGTGGAAGTC
 TTCCCAGAGATACAACCTTCACTGGAAGGCTACACCCCTCAATATCCAGACACAATGGAAAACGGGAC
 TCTCTTCCAGTGACCCCTGCTAAGACTGAGGTCTTTGGAGAACTGAAGGGACTGTTGCTACTGACTCC
 AACTTTAATGTGGATGGCTCCTTACCAGGTGATGGAGACTCATCCATGGACCCAGGGGTGGTTTCGACA
 CTGTGACTCATGGATCCGAATTAGCTGGACACTCAAGTGGGAATCAAGACAGTGGAGTGACCACAACCTC
 TGGTCTGCGAGGAGACCTCAGATTCAGAGTGGCTTATCATCTTGGCATCCCTCCTGGCGCTGGCTCTG
 ATTCTTGGCGTCTGCATTGCTGTCAACAGTAGGAGAAGGTGTGGGCAGAAGAAGAAGCTGGTGATCAACA
 GTGGCAATGGAACAGTGAAGACAGGAAACCAAGTGAACCAACGGGGAGGCCAGCAAGTCTCAGGAAAT
 GGTGCATTTGGTGAACAAGGAACCAACAGAGACTCCGGACCAGTTTATGACAGCTGATGAGACCCGGAAT
 CTGCAGAGTGTGGATATGAAGATTGGGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202727 representing NM_012924
Red=Cloning site Green=Tags(s)

MDKVVWHTAWGLLCLLQLSLAQQQIDLNITCRYAGVFHVEKNGRYSISRTEAADLCEAFNTTLPMAQME
LALRKGFEFCRYGFIEGHVVIPRIHPNAICAAANTGVYILLASNTSHYDYCFNASAPLEEDCTSVTDLP
NSFDGPVTITIVNRDGTTRYSKKGEYRTHQEDIDASNIIDEDVSSGSTIEKSTPEGYILHTDLPTSQPTGD
RDDAFFIGSTLTIASVYKSHATAQKQNNWIWSWFGNSQSTTQTQDSPTTTATTALMTTPETPPKRQE
AQNWFSWFFQPSEKSHLHTTTKMPGTESNTNPTGWKPNEENEDETDKYPNFSGSGIDDEDFISSIAT
TPWVSAHTKQNQERTQWNP IHSNPEVLLQTTTRMTDIDRNSTSAHGENWTQEPQPPFNNHEYQDEEETPH
ATSTTWADPNSTTEEAATQKEKWFENEWQGNPPTPSED SHVTEGTTASAHNNHPSQRMTTQSQEDVSWT
DFFDPI SHPMGQGHQTESKDTGSSHSTTLQPTAAPNTHLVEDLNRTGPLSVTTPQSHSQNFSTLPGEELE
GEDHPTT SVLPSSTKSGRRRGGSLPRDTTTSLEGYTPQYPDTMENGTLFPVTPAKTEVFGETEGTVATDS
NFNVDGSLPGDGDSSMDPRGGFDVTTHGSELAGHSSGNQDSGVT TSGPARRPQIPEWLIILASLLALAL
ILAVCIAVNSRRRCGQKKLVINSNGTVEDRKPSELNGEASKSQEMVHLVNKEPTETPDQFMTADETRN
LQSVDMKIGV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_012924

ORF Size: 2340 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_012924.2](#), [NP_037056.2](#)

RefSeq Size: 4038 bp

RefSeq ORF: 2343 bp

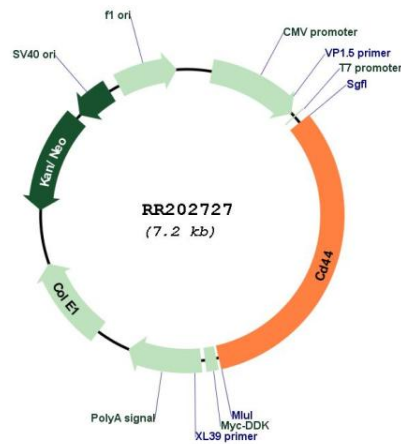
Locus ID: 25406

Cytogenetics: 3q32

MW: 85.9 kDa

Gene Summary: adhesion molecule involved in migration, cell fusion and resorption in osteoclasts that also plays a role in cellular metastasis [RGD, Feb 2006]

Product images:



Circular map for RR202727