

Product datasheet for **RR213738**

Oprd1 (NM_012617) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oprd1 (NM_012617) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Oprd1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR213738 representing NM_012617
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGTGCCTTCTGCCCGTGCAGGCTGCAGTTTTCGCTCCTCGCCAACGTCTCGGACACCTTCC
CTAGCGCCTTCCCAGTGCAGCGCCAATGCGTCGGGGTGCAGCGGCCCGCCAGTGCCTCGTCCCTGGC
TCTGGCCATCGCCATCACCGCGCTCTACTCGGCTGTGTGCGCCGTGGGGTGTGGGCAACGTGCTCGTC
ATGTTTGAATCGTCCGGTACACTAAGCTGAAGACGGCCACCAACATCTACATCTTCAATCTGGCCTTGG
CGGATGCGCTGGCCACCAGCACACTGCCCTTCCAGAGCGCCAAGTACCTGATGAAACGTGGCCGTTCCGG
AGAGCTGCTGTGCAAGGCTGTGCTCTCCATTGACTACTACAACATGTTACCAGCATCTTACGCTCACC
ATGATGAGCGTGGACCGCTACATTGCGGTCTGCCACCCTGTCAAGGCCTTGGACTTCCGGACACCGGCCA
AGGCCAAGCTGATCAACATATGCATCTGGGTCTTGGCTTCAGGTGTTGGGGTCCCATCATGGTCATGGC
AGTGACCAACCCGGGATGGAGCAGTGGTATGCACGCTCCAGTTCACCCAGCCAGCTGGTACTGGGAC
ACTGTGACCAAGATCTGCGTGTCTCTTCGCCTTCGTGGTGCCATTCTCATCATCACCGTGTGCTATG
GCCTCATGCTGCTGCGCTGCGCAGCGTGCCTGCTGTCCGGCTCAAGGAGAAGGACCGCAGCCTGCG
GCGCATCACGCGATGGTGTGGTGGTGGGAGCCTTCGTGGTGTGCTGGGCGCCATCCACATCTTC
GTCATCGTCTGGACGCTGGTGGACATCAATCGGCGGACCCACTTGTGGTGGCCGCGCTGCATTGTGCA
TTGCGCTGGGCTACGCCAACAGCAGCCTCAACCCGGTTCCTACGCTTCTGGAGGAGAACTTCAAGCG
CTGCTTCCGCCAGCTCTGTGCGCGCCCTGCGGCGGCCAAGAACCAGCAGCCTCCGCCGTCCCCGCCAG
GCCACCGCGCTGAGCGTGCACCCCTGCACCCCTCCGACGGCCCGGGCGGTGGCGCTGCCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213738 representing NM_012617
Red=Cloning site Green=Tags(s)

MEPVPSARAEQFSLLANVSDTFPSAFPSASANASGSPGARSASSLALAIITALYSAVCAVGLLGNLV
MFGIVRYTKLKTATNIYIFNLALADALATSTLPFQSAKYLMTWPFGELLCKAVLSIDYNNMFTSIFTLT
MMSVDRYIAVCHPVKALDFRTPAKAKLINICIWVLASGVGVPIMVMAVTQPRDGAVVCTLQFPSPSWYWD
TVTKICVFLFAFVVPILIIITVCYGLMLLRSLRLLSGSKEKDRSLRRITRMVLVVVGAFVVCWAPIHIF
VIWVTLVDINRRDPLVVAALHLCIALGYANSSLNPNVLYAFLDENFKRCFRQLCRAPCGGQEPGSLRRPRQ
ATARERTACTPSDGGPGGAAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012617

ORF Size: 1116 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_012617.1](#), [NP_036749.1](#)

RefSeq Size: 1418 bp

RefSeq ORF: 1119 bp

Locus ID: 24613

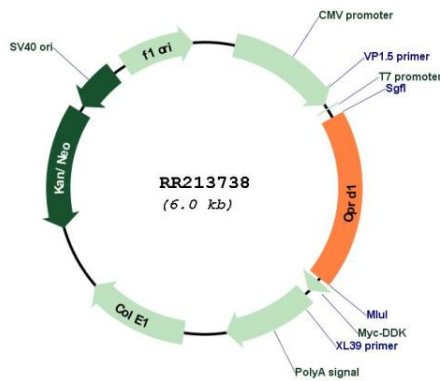
UniProt ID: [P33533](#)

Cytogenetics: 5q36

MW: 40.4 kDa

Gene Summary: receptor for ligand D-Pen2, D-Pen5-enkephalin [RGD, Feb 2006]

Product images:



Circular map for RR213738