

## Product datasheet for **RR201588**

### **Xpnpep1 (NM\_131913) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Xpnpep1 (NM_131913) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xpnpep1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR201588 representing NM\_131913  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCGAAGGTGACCTCAGAGCTTCTGCGGCAGCTGCGACAAGCTATGAGGAACTCGGAGTGCCTGG  
 CAGAACCCATCCAGGCCTACATCATCCCATCGGGAGACGCCACCAGAGTGAGTACATTGCACCCTGTGA  
 CTGTGCGAGGGCGTTCGCTCCGGCTTCGATGGCTCTGCAGGCACAGCTATCATCACGGAGGAGCATGCG  
 GCCATGTGGACGGATGGGCGCTACTTTCTCCAAGCTGCCAAGCAGATGGACAACAACCTGGACCCTCATGA  
 AGATGGGTCTGAAGGACACCCGACTCAGGAGGACTGGCTGGTGAAGTGTGCTTCCGGAAGGATCCAGGGT  
 TGGTGTGGACCCTCTCATATCCACAGATTACTGGAAGAAGATGGCCAAGGTACTTCCAAGTGTGCTGGT  
 CACCACCTCGTCCTGTGAAGGAGAACCTGTGGATAAGATCTGGACAGACCGGCCAGAGCGCCCTTGCA  
 AGCCCCCTCTCACACTGGGTCTGGATTACAGGCATCTCGTGAAGGAGAAGGTTGCAGACCTTCGGTT  
 GAAAATGGCGGAGAGGAGCATCGTGTGGTTTGTGGTCACTGCCCTAGACGAGATTGCATGGCTGTCAAT  
 CTCGAGGGTCAAGATGTGGAGCACAACCCGGTGTTCCTCCTACGCAATCATAGGACTAGAGAGGATCA  
 TGCTCTTCATCGACGGGGACCGATTGATGCGCCTGGTGTGAAACAGCACCTGCTCCTTGACTTGGGCT  
 GGAGGCAGAATATAAAATCCAGGTGCTGCCTTACAAGTCCATCCTGAGTGAACCTCAAGACCTGTGTGCT  
 GACCTGTCCCCGAGGGGAGAAGGTGTGGTCAAGTGAACAAGCCAGCTATGCTGTGAGCGAGGCCATCCCCA  
 AGGATCATCGGTGCTGTATGCCTTATACGCCATCTGCATTGCCAAAGCCGTGAAGAACCTCCGCCGAGTC  
 AGCAGGCATGAGGCGGGCTCATATTAAGATGCCGTTGCCCTCTGCGAGCTTCAACTGGCTGGAGCAA  
 GAGGTCCCAAAGGTGGCGTAACGGAGATCTCTGCAGCTGACAAGGCTGAGGAATTCGAAGACAACAGG  
 CTGACTTTGTGGACCTGAGCTTCCAACGATTTCCAGCACGGGACCCAACGGCCCATCTTCACTACGC  
 GCCGATCCCTGAGACGAATAGGACCCTGTCCCTGGATGAGGTGTATCTCATTGACTCCGGTGTCTAGTAC  
 AAGGATGGAACACAGACGTTACCCGGACCATGCACTTCGGGACCCTACTGCCTATGAGAAGGAGTGT  
 TCACGTATGACTGAAAGGCCACATTGCTGTGAGCGCGGCTGTTTTCCAACGGGAACCAAGGCCACCT  
 TCTAGACTCCTTTGCCGGTCAAGCCTGTGGGATTCCGGCCTGGATTACCTGCACGGAACAGGACACGGC  
 GTCGGGTCTTCTGAATGTTACGAGGGCCCTTGTGGCATCAGTTATAAAACGTTCTCTGACGAGCCCT  
 TGAAGCCGGCATGATCGTCACTGATGAGCCAGGGTATTATGAAGATGGGCGTGTGGGATCCGCATCGA  
 GAACGTTGTTTTGGTGGTCCCTGCGAAGACCAAGTATAATTTCAATAACCGAGGAAGCCTGACCTTTGAA  
 CCTCTAACTTTGGTCCCATCCAGACAAAATGATAGATGTGGATGCTCTTACAGATAAAGAGTGTGACT  
 GGCTCAACAGCTACCACCAGACCTGCAGGGATGTGATTGGGAAGGAGCTGCAGACTCAAGGCCGCCAGGA  
 AGCTCTCGAGTGGCTCCTCAGAGAGACAGAGCCCATCTCCAGGCAGCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201588 representing NM\_131913  
 Red=Cloning site Green=Tags(s)

MAPKVTSELLRQLRQAMRNSECVAEPIQAYIIPSGDAHQSEYIAPCDRRAFVSGFDGSAGTAIITEEHA  
 AMWTDGRYFLQAAKQMDNNWTLKMKGLKDTPTQEDWLVSVLPEGSRVGVDP LIIP TDYWKMAKVLRSAG  
 HHLVPVKENLVDKIWTDRPERPCKPLLTLGLDYGISWKEKVADLRLKMAERSIVFVVTALDEIAWLFN  
 LRGSDEHNPFVFSYAIIGLERIMLFIDGDRIDAPGVKQHLLDLGLEAEYKIQVLPYKSILSELKTLCA  
 DLSPREKVVWSDKASYAVSEAI PKDHRCMPYTPICIAKAVKNSAESAGMRRAHIKDAVALCEL FNWLEQ  
 EVPKGGVTEISAADKAEFFRRQQADFVLSFPTISSTGPNGAI IHYAPIPETNRTL SLDEVYLIDSGAQY  
 KDGTDDVTRTMHFGTPTAYEKECFYVVLKGHIAVSAAVFPTGKGHLLDSFARSALWDSGLDYLHGTGHH  
 VGSFLNVHEGPCGISYKTF SDEPLEAGMIVTDEPGYYEDGAFGIRIENVVLVVPAKTKYNFNRRGSLTFE  
 PLTLVPIQTKMIDVDALTDKECDWLNYSYHQTCRDVIGKELQTQGRQEALWLLRETEPISRQH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_131913

**ORF Size:** 1869 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\\_131913.1](#), [NP\\_571988.1](#)

**RefSeq Size:** 2381 bp

**RefSeq ORF:** 1872 bp

**Locus ID:** 170751

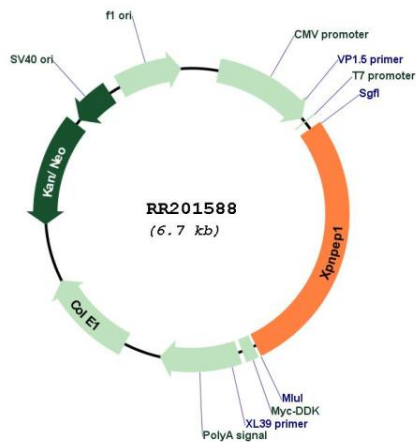
**UniProt ID:** [O54975](#)

**Cytogenetics:** 1q55

**MW:** 69.7 kDa

**Gene Summary:** cytosolic enzyme that catalyzes the release of any N-terminal amino acid that is linked with proline [RGD, Feb 2006]

**Product images:**



Circular map for RR201588