

Product datasheet for **RR205546**

P2rx4 (NM_031594) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx4 (NM_031594) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2rx4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205546 representing NM_031594 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCTGCTGCTCCGTGCTCGGGTCTTCTGTTTCGAGTACGACACGCCGCGCATCGTGCTCATCC
GCAGCCGTAAGTGGGGCTCATGAACCGCGGTGCAGCTGCTCATCCTGGCTTACGTCATCGGGTGGGT
GTTCTGTGGAAAAGGGCTACCAGAAACGGACTCCGTGGTCACTCGGTGACAACCAAGCCAAAGGT
GTGGCTGTGACCAACACCTCTCAGCTTGGATTCCGGATCTGGGACGTGGCGGACTATGTATTCCAGCTC
AGGAGGAAAACCTCCTCTTCATCATGACCAACATGATCGTCACCGTGAACCAGACACAGACACCTGTCC
AGAGATTCTGATAAGACCAGCATTGTAATTCAGACGCCGACTGCACTCCTGGCTCCGTGGACACCCAC
AGCAGTGGAGTTGCGACTGGAAGATGTGTTCTTTCAATGAGTCTGTGAAGACCTGTGAGGTGGCTGCAT
GGTGCCCGGTGGAGAACGACGTTGGCGTGCCAACGCCGCTTTCTTAAAGGCTGCAGAAAACCTCACCCCT
CTTGTTAAAGAACAACATCTGGTACCCCAAGTTTAACTTCAGCAAGAGGAACATCCTCCCAACATCACC
ACGTCCTACCTCAAATCGTGCATTTACAATGCTCAAACGGATCCCTTCTGCCCATATTCGTCTTGCCA
CAATCGTGGGGGACGCGGACATAGCTTCCAGGAGATGGCAGTTGAGGGAGGCATCATGGGTATCCAGAT
CAAGTGGGACTGCAACCTGGATAGAGCCGCTCCCTTTGCTGCCAGATATTCTTCCGCGCCTGGAC
ACCCGGGACCTGGAACACAATGTGTCTCCTGGCTACAATTTAGGTTTGCCAAGTACTACAGGGACCTGG
CCGGCAAAGAGCAGCGCACACTACCAAGGCGTACGGCATCCGCTTTGACATCATCGTGTGGAAAGGC
TGGGAAGTTTGACATCATCCCTACCATGATCAACGTTGGCTCTGGCTTGGCGCTCCTCGGGTGGCGACG
GTGCTCTGTGACGTCATAGTCTCTACTGCATGAAGAAGAAATACTACTACCGGGACAAGAAATATAAGT
ATGTGGAAGACTACGAGCAGGTCTTTCGGGGGAGATGAACCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205546 representing NM_031594
Red=Cloning site Green=Tags(s)

MAGCCSVLGSFLFEYDTPRIVLIRS~~RV~~GLMNRVQLLILAYVIGWVFWVEKGYQETDSVSSVTTKAKG
 VAVTNTSQLGFRIWDVADYVIPAQEENSLFIMTNMIVTVNQTQSTCPEIPDKTSICNSDADCTPGSV~~DT~~H
 SSGVATGR~~CV~~PFNESVKTCEVAAWCPVENDVGVPTPAFLKAAENFTLLVKNNI~~W~~YPKFNFSKR~~N~~ILPNIT
 TSYLKSC~~I~~YNAQTDPFCPIFRLGTIVGDAGHSFQEMAVEGGIMGIQIKWDCNLDRAASLCLPRYSFRRLD
 TRDLEHN~~V~~SPGYNFRFAKYRDLAGKEQRTLTKAYGIRFDIIVFGKAGKFDIIP~~T~~MINVGSGLALLGVAT
 VLCDVIVLYCMKKKYYRDKKYKYVEDYEQGLSGEMNQ

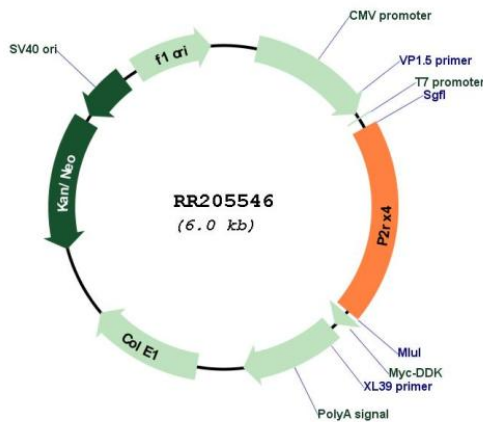
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031594

ORF Size:	1164 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:	NM_031594.1 , NP_113782.1
RefSeq Size:	1997 bp
RefSeq ORF:	1167 bp
Locus ID:	29659
UniProt ID:	P51577
Cytogenetics:	12q16
MW:	43.4 kDa
Gene Summary:	ATP-activated ionotropic receptor; involved in synaptic transmission in the central nervous system [RGD, Feb 2006]