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Product datasheet for RN203222

P2rx2 (NM_053656) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx2 (NM_053656) Rat Untagged Clone
Tag:	Tag Free
Symbol:	P2rx2
Synonyms:	P2X2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>NM_053656 ORF sequence, RN203222 may differ due to SNPs.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTCCGGCGCTTGGCCCGGGGCTGCTGGTCCGCGTTCTGGGACTACGAGACGCCTAAGGTGATCGTG
GTGCGGAATCGGCGCCTGGGATTCGTGCACCGCATGGTGCAGCTTCTCATCCTGCTTTACTTCGTGTGG
TACGTCTTCATCGTGCAGAAAAGCTACCAGGACAGCGAGACCGGACCGGAGAGCTCCATCATCACCAAA
GTCAAGGGGATCACCATGTCGGAAGACAAAGTGTGGGACGTGGAGGAATACGTAAAGCCCCCGGAGGGG
GGCAGTGTAGTCAGCATCATCACCAGGATCGAGGTTACCCCTTCCCAGACCTTGGGAACATGCCCAGAG
AGCATGAGGGTTCACAGCTCTACCTGCCATTCAGACGACGACTGTATTGCCGGACAGCTGGACATGCAA
GGCAATGGGATTCGCACAGGGCACTGTGTACCCTATTACCATGGGGACTCCAAGACCTGCGAGGTGTCA
GCCTGGTGCCCGGTGGAGGATGGAACTTCTGACAACCATTTTCTGGGTAAAATGGCCCCAAATTTCACC
ATCCTCATCAAGAACAGCATCCACTACCCCAAGTTCAAGTTCTCAAAGGGCAACATTGCAAGCCAGAAG
AGTGACTACCTCAAGCATTGCACATTTGATCAGGACTCTGACCCATACTGTCCCATCTTCAGGCTGGGT
TTCATTGTTGAGAAGGCAGGAGAGAACTTCACAGAACTGGCACACAAGGGCGGTGTCATTGGAGTCATC
ATCAACTGGAACTGTGACCTGGACTTGTCTGAATCAGAGTGCAACCCCAAATATTCTTTCCGGAGGCTC
GACCCCAAGTATGACCCTGCCTCCTCAGGCTACAACTTCAGGTTTGCCAAGTATTACAAGATAAACGGC
ACTACCACCACTCGAACTCTCATCAAAGCCTATGGGATTCGAATCGATGTTATCGTGCATGGACAGGCA
GGGAAATTCAGTCTCATTCCCACCATCATCAATCTGGCCACTGCTCTGACCTCCATCGGGGTGGGCTCC
TTCCTGTGTGACTGGATTTTGTTAACGTTCATGAACAAAAACAAGCTCTACAGCCATAAGAAGTTCGAC
AAGGTGCGTACTCCAAAGCATCCCTCAAGTAGATGGCCTGTGACCCTTGCCCTTGTCTTGGGCCAGATC
CCTCCCCCACCTAGTCACTACTCCCAGGATCAGCCACCCAGCCCTCCATCAGGTGAAGGACCAACTTTG
GGAGAAGGGGCAGAGCTACCACTGGCTGTCCAGTCTCCTCGGCCTTGCTCCATCTCTGCTCTGACTGAG
CAGGTGGTGGACACACTTGGCCAGCATATGGGACAAAGACCTCCTGTCCCTGAGCCTTCCCAACAGGAC
TCCACATCCACGGACCCCAAAGGTTTGGCCCAACTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Protein Sequence:

MVRRLARGCWSAFWDYETPKVIVVRNRRLGFVHRMVQLLILLYFVWYVFIVQKSYQDSETGPESSIITK
VKGITMSEDKVWDVEEYVKPPEGGSVVSIITRIEVTPSQTLGTCPESMRVHSSTCHSDDDCIAGQLDMQ
GNGIRTGHCVPYYHGDSKTCEVSAWCPVEDGTSDNHFLGKMAPNFTILIKNSIHYPKFKFSKGNIASQK
SDYLKHCTFDQDSDPYCPIFRLGFIVEKAGENFTELAHKGGVIGVIINWNCDLDLSESECNPKYSFRRL
DPKYDPASSGYNFRFAKYYKINGTTTTRTLIKAYGIRIDVIVHGQAGKFSLIPTIINLATALTSIGVGS
FLCDWILLTFMNKNKLYSHKKFDKVRTPKHPSSRWPVTLALVLGQIPPPPSHYSQDQPPSPPSGEGPTL
GEGAELPLAVQSPRPCSISALTEQVVDTLGQHMGQRPPVPEPSQQDSTSTDPKGLAQL*
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Fully Sequenced ORF:

>RN203222 representing NM_053656
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCGGCGCTTGGCCCGGGGCTGCTGGTCCGCGTTCTGGGACTACGAGACGCCTAAGGTGATCGTGG
TGCGGAATCGGCGCCTGGGATTCGTGCACCGCATGGTGCAGCTTCTCATCCTGCTTTACTTCGTGTGGTA
CGTCTTCATCGTGCAGAAAAGCTACCAGGACAGCGAGACCGGACCGGAGAGCTCCATCATCACCAAAGTC
AAGGGGATCACCATGTCGGAAGACAAAGTGTGGGACGTGGAGGAATACGTAAAGCCCCCGGAGGGGGGCA
GTGTAGTCAGCATCATCACCAGGATCGAGGTTACCCCTTCCCAGACCTTGGGAACATGCCCAGAGAGCAT
GAGGGTTCACAGCTCTACCTGCCATTCAGACGACGACTGTATTGCCGGACAGCTGGACATGCAAGGCAAT
GGGATTCGCACAGGGCACTGTGTACCCTATTACCATGGGGACTCCAAGACCTGCGAGGTGTCAGCCTGGT
GCCCGGTGGAGGATGGAACTTCTGACAACCATTTTCTGGGTAAAATGGCCCCAAATTTCACCATCCTCAT
CAAGAACAGCATCCACTACCCCAAGTTCAAGTTCTCAAAGGGCAACATTGCAAGCCAGAAGAGTGACTAC
CTCAAGCATTGCACATTTGATCAGGACTCTGACCCATACTGTCCCATCTTCAGGCTGGGTTTCATTGTTG
AGAAGGCAGGAGAGAACTTCACAGAACTGGCACACAAGGGCGGTGTCATTGGAGTCATCATCAACTGGAA
CTGTGACCTGGACTTGTCTGAATCAGAGTGCAACCCCAAATATTCTTTCCGGAGGCTCGACCCCAAGTAT
GACCCTGCCTCCTCAGGCTACAACTTCAGGTTTGCCAAGTATTACAAGATAAACGGCACTACCACCACTC
GAACTCTCATCAAAGCCTATGGGATTCGAATCGATGTTATCGTGCATGGACAGGCAGGGAAATTCAGTCT
CATTCCCACCATCATCAATCTGGCCACTGCTCTGACCTCCATCGGGGTGGGCTCCTTCCTGTGTGACTGG
ATTTTGTTAACGTTCATGAACAAAAACAAGCTCTACAGCCATAAGAAGTTCGACAAGGTGCGTACTCCAA
AGCATCCCTCAAGTAGATGGCCTGTGACCCTTGCCCTTGTCTTGGGCCAGATCCCTCCCCCACCTAGTCA
CTACTCCCAGGATCAGCCACCCAGCCCTCCATCAGGTGAAGGACCAACTTTGGGAGAAGGGGCAGAGCTA
CCACTGGCTGTCCAGTCTCCTCGGCCTTGCTCCATCTCTGCTCTGACTGAGCAGGTGGTGGACACACTTG
GCCAGCATATGGGACAAAGACCTCCTGTCCCTGAGCCTTCCCAACAGGACTCCACATCCACGGACCCCAA
AGGTTTGGCCCAACTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_053656

Insert Size: 1419 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_053656.3
RefSeq Size:	1833 bp
RefSeq ORF:	1419 bp
Locus ID:	114115
UniProt ID:	P49653
Cytogenetics:	12q16
MW:	52.6 kDa
Gene Summary:	subunits assemble into ATP-gated ion channels involved in neuritogenesis and cell survival [RGD, Feb 2006]