

Product datasheet for **SC335678**

P2X2 (P2RX2) (NM_001282164) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X2 (P2RX2) (NM_001282164) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2RX2
Synonyms:	DFNA41; P2X2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335678 representing NM_001282164. Blue=Insert sequence Red=Cloning site Green=Tag(s)

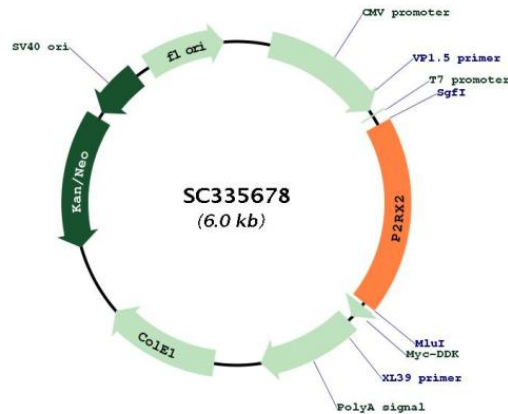
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GCCCTCTGGGACTACGAGACGCCAAGGTGATCGTGGTGAAGAACGGCGCCTGGGGTCTGTACCGC
GCCGTGCAGCTGCTCATCTGCTCTACTTCGTGTGGTACGTATTCATCGTGCAGAAAAGTACCAGGAG
AGCGAGACGGGCCCCGAGAGCTCCATCATCAACCAAGTCAAGGGGATCACCACGTCGAGCACAAAGTG
TGGGACGTGGAGGAGTACGTGAAGCCCCCGAGAGCATAAAGGTCCACAACGCCACCTGCCTCTCCGAC
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CCTCATCAAGAACAGCATCCACTACCCAAATTCACCTTCTCAAGGGCAACATCGCCGACCGCACAGA
CGGGTACCTGAAGCGCTGCACGTTCCACGAGGCCTCCGACCTCTACTGCCCATCTTCAAGCTGGGCTT
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GGCAACACCCGACGCTCATCAAGGCCTACGGGATCCGATTGACGTCATTGTGCATGGACAGGCC
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CAACTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001282164

Insert Size: 1113 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_001282164.1](#)

RefSeq Size: 1564 bp

RefSeq ORF: 1113 bp

Locus ID: 22953

UniProt ID: [Q9UBL9](#)

Cytogenetics: 12q24.33

Protein Families: Druggable Genome, Ion Channels: ATP Receptors, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

MW: 41.4 kDa

Gene Summary: The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel. Binding to ATP mediates synaptic transmission between neurons and from neurons to smooth muscle. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Aug 2013]
Transcript Variant: This variant (7) lacks three alternate in-frame segments in the 5' and 3' ends and two alternate segments in the middle compared to variant 4, that cause a frameshift. The resulting isoform (J) lacks three alternate segments and contains a different internal segment compared to isoform D.