

Product datasheet for **MG206258**

P2rx1 (NM_008771) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2rx1 (NM_008771) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2rx1
Synonyms:	AI323649; BB122383; P2x; Pdcd3; RP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206258 representing NM_008771 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCGGCGGCTGCAGGATGAGCTGTCAGCCTTCTTCTTTGAGTATGACACTCCCCGGATGGTGTCTGG
TACGAAACAAGAAGGTGGGAGTCATTTCCGTCTGATCCAGTTGGTGGTCTGGTCTACGTCATTGGGTG
GGTGTGTCTATGAAAAAGGATACCAGACCTCAAGTGGCCTTATCAGCAGTGTGTGAGTAACTCAAG
GGCTTGGCTGTGACCCAGCTCCAGGGCCTGGGACCCAGGTCTGGGACGTGGCTGACTATGTCTCCAG
CACATGGGACAGCTCCTTTGTAGTTATGACCAATTTTCATCATGACCCCTCAGCAGGCTCAAGGACATTG
TGCAGAGAACCAGAAAGGTGGCATATGCCAAGATGACAGTGGCTGCACTCCAGGAAAAGCAGAAAGGAAA
GCCCAAGGTATTCGCACAGGCAACTGTGTGCCCTTCAATGGCACTGTGAAGACGTGTGAGATCTTTGGCT
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CGACTGGGAGTGTGACCTGGACTGGCATGTACGGCACTGCAAACCCATCTACCAGTCCATGGACTGTAC
GGGGAAGAAGAACTGTCTCCAGGCTTCAACTTCAAGATTTGCCAGGCACTTGTGCAAGTGGGACAAC
GTCGTACCTCTTCAAGGTGTTGGGATTGCTTTGATATCCTTGTGGATGGCAAGGCTGGGAAGTTTGA
CATCATCCCTACTATGACTACCATCGGCTCTGGGATTGGCATCTTTGGAGTGGCCACAGTCTCTGTGAT
CTCTTATTGCTCCACATCCTGCCTAAGAGGCACTACTACAAGCAGAAGAAGTTCAAGTATGCGGAGGACA
TGGGGCTGTGGAGGTGAACGTGACCCCGCGCCACCAGCTCCACTCTGGGCTGCAGGAGAACATGAG
GACCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 Red=Cloning site Green=Tags(s)

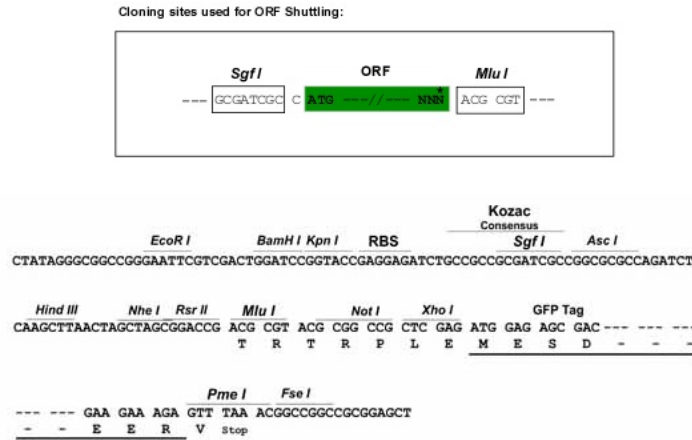
MARRLQDELSAFFFEYDTPRMVLVRNKKVGVIFRLIQLVVLVYVIGWVVFYVEKGYQTSSGLISSVSVKLLK
 GLAVTQLQGLGPQVWDVADYVFPAPAGDSSFVVMNTFIMTPQQAQGHCAENPEGGICQDDSGCTPGKAERK
 AQGIRTGNCVFPNGTVKTCIEIFGWCPVEVDDKIPSPALLHEAENFTLFIKNSISFPRFKVNRRLVEEVN
 GTYMKKCLYHKILHPLCPVFSLGYVVRESGQDFRSLAEKGGVVGITIDWECDLDWHVHRCKPIYQFHGLY
 GEKNLSPGFNFRFARHFVQNGTNRRLFKVFGIRFDILVDGKAGKFDIIPMTTIGSGIGIFGVATVLCID
 LLLLHILPKRHYYKQKKFKYAEDMGPVEGERDPAATSSTLGLQENMRTS

TRTRPLE - GFP Tag - V

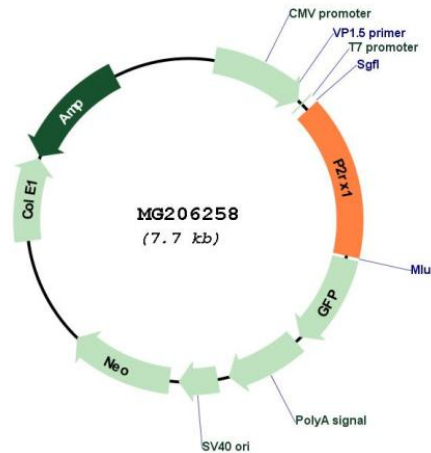
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_008771

ORF Size:	1197 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_008771.2 , NP_032797.2
RefSeq Size:	2489 bp
RefSeq ORF:	1200 bp
Locus ID:	18436
UniProt ID:	P51576
Cytogenetics:	11 45.09 cM
Gene Summary:	Ligand-gated ion channel with relatively high calcium permeability. Binding to ATP mediates synaptic transmission between neurons and from neurons to smooth muscle. Seems to be linked to apoptosis, by increasing the intracellular concentration of calcium in the presence of ATP, leading to programmed cell death (By similarity).[UniProtKB/Swiss-Prot Function]