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Product datasheet for SC326963

P2X6 (P2RX6) (NM_001159554) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2X6 (P2RX6) (NM_001159554) Human Untagged Clone
Tag:	Tag Free
Symbol:	P2RX6
Synonyms:	P2RXL1; P2X6; P2XM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC326963 representing NM_001159554.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCCCGCAGCTAGCAGGAGCTGGCAGCATGGGCTCCCCAGGGGCTACGACAGGCTGGGGGCTTCTG
GATTATAAGACGGAGAAGTGGGCTCTCCTCGCCAAAAAAGGCTACCAGGAGCGGGACCTGGAACCCCAG
TTTTCCATCATCACCAAACTCAAAGGGGTTTCCGTCACTCAGATCAAGGAGCTTGGAAACCGGCTGTGG
GATGTGGCCGACTTCGTGAAGCCACCTCAGGGAGAGAACGTGTTCTTCTTGGTGACCAACTTCCTTGTG
ACGCCAGCCCAAGTTCAGGGCAGATGCCCAGAGCACCCGTCCGTCCCACTGGCTAACTGCTGGGTCGAC
GAGGACTGCCCCGAAGGGGAGGGAGGCACACACAGCCACGGTGTAAAAACAGGCCAGTGTGTGGTGTTC
AATGGGACCCACAGGACCTGTGAGATCTGGAGTTGGTGCCCCGTGGAGAGTGGCGTTGTGCCCTCGAGG
CCCCTGCTGGCCCAGGCCCAGAACTTCACACTGTTCATCAAAAACACAGTCACCTTCAGCAAGTTCAAC
TTCTCTAAGTCCAATGCCTTGGAGACCTGGGACCCCACCTATTTTAAGCACTGCCGCTATGAACCACAA
TTCAGCCCCTACTGTCCCGTGTTCCGCATTGGGGACCTCGTGGCCAAGGCTGGAGGGACCTTCGAGGAC
CTGGCGTTGCTGGGTGGCTCTGTAGGCATCAGAGTTCACTGGGATTGTGACCTGGACACCGGGGACTCT
GGCTGCTGGCCTCACTACTCCTTCCAGCTGCAGGAGAAGAGCTACAACTTCAGGACAGCCACTCACTGG
TGGGAGCAACCGGGTGTGGAGGCCCGCACCCTGCTCAAGCTCTATGGAATCCGCTTCGACATCCTCGTC
ACCGGGCAGGCAGGGAAGTTCGGGCTCATCCCCACGGCCGTCACACTGGGCACCGGGGCAGCTTGGCTG
GGCGTGGTCACCTTTTTCTGTGACCTGCTACTGCTGTATGTGGATAGAGAAGCCCATTTCTACTGGAGG
ACAAAGTATGAGGAGGCCAAGGCCCCGAAAGCAACCGCCAACTCTGTGTGGAGGGAGCTGGCCCTTGCA
TCCCAAGCCCGACTGGCCGAGTGCCTCAGACGGAGCTCAGCACCTGCACCCACGGCCACTGCTGCTGGG
AGTCAGACACAGACACCAGGATGGCCCTGTCCAAGTTCTGACACCCACTTGCCAACCCATTCCGGGAGC
CTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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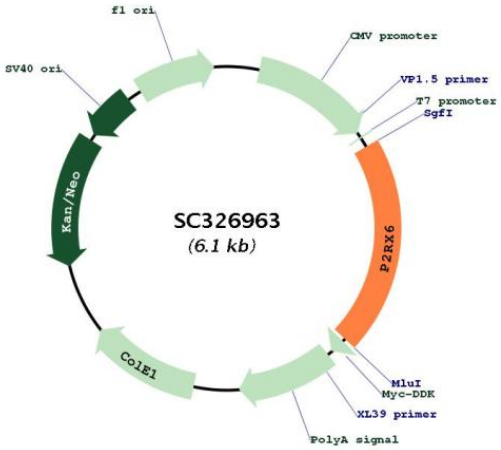
Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001159554

Insert Size: 1248 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001159554.1

RefSeq Size: 2698 bp

RefSeq ORF: 1248 bp

Locus ID: 9127

UniProt ID:	O15547
Cytogenetics:	22q11.21
Protein Families:	Druggable Genome, Ion Channels: ATP Receptors, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
MW:	45.8 kDa
Gene Summary:	The protein encoded by this gene belongs to the family of P2X receptors, which are ATP-gated ion channels and mediate rapid and selective permeability to cations. This gene is predominantly expressed in skeletal muscle, and regulated by p53. The encoded protein is associated with VE-cadherin at the adherens junctions of human umbilical vein endothelial cells. Alternative splicing results in multiple transcript variants. A related pseudogene, which is also located on chromosome 22, has been identified. [provided by RefSeq, Apr 2009] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.