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Product datasheet for RG206023

PCDH8 (NM_002590) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH8 (NM_002590) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDH8
Synonyms:	ARCADLIN; PAPC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG206023 representing NM_002590
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCCTGTGAGGCGTTGGGGCAGCCCCTGCCTTTTCCCCTTGCAGCTCTTCAGCCTCTGCTGGGTGC
TCTCAGTGGCCCAGAGCAAAACAGTCCGATACAGCACCTTCGAGGAGGATGCCCCCGGCACGGTCATCGG
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AACGACAACGCGCCGCTCTTCACGCGGCCGGTCTATGAGGTGTCGGTGCGCGAGAACAACCCGCCAGGCG
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CTCTACCAGTCCCCTCCTGGCAGGTACCTGTCCCCGAAGAAGGGAGCCAATGAAAATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206023 representing NM_002590
Red=Cloning site Green=Tags(s)

MSPVRRWGSPCLFPLQLFSLCWVLSVAQSKTVRYSTFEEDAPGTVIGTLAEDLHMKVSGDTSFRLMKQFN
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PVEVSEGAAVGTRIPLEVPVDEDVGANGLQTVRLAEPHSPFRVELQTRADGAQCADLVLLQELDRESQAA
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PAQMSTFCKSTSLPRDPLRRDNYYQAQLPKTVGLQSVYEKVLHRDYDRTVTLLSPPRPGRLPDLQEIGVP
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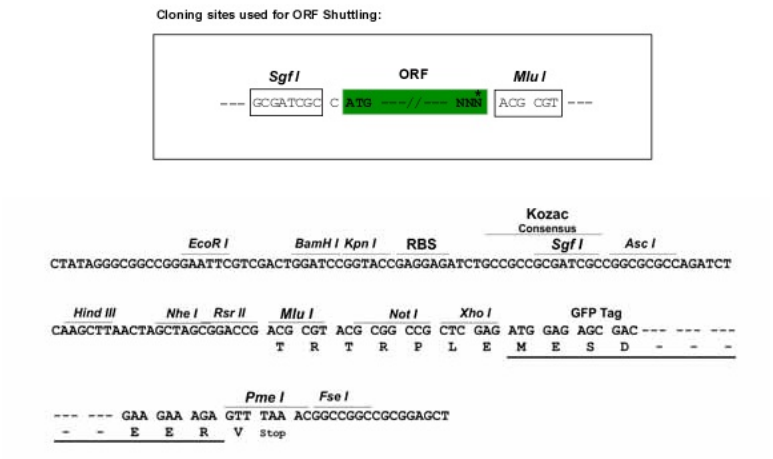
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

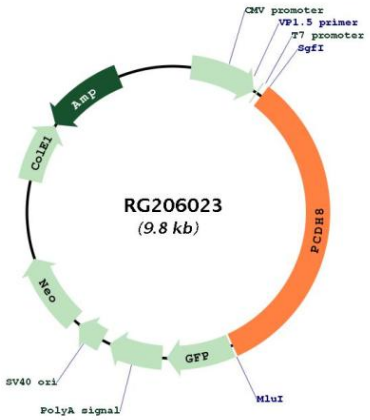
Cloning Scheme:



ACCN:	NM_002590
ORF Size:	3210 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:	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_002590.2, NP_002581.2
RefSeq Size:	4076 bp
RefSeq ORF:	3213 bp
Locus ID:	5100

UniProt ID:	O95206
Cytogenetics:	13q14.3
Domains:	CA
Protein Families:	Transmembrane
Gene Summary:	This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The gene encodes an integral membrane protein that is thought to function in cell adhesion in a CNS-specific manner. Unlike classical cadherins, which are generally encoded by 15-17 exons, this gene includes only 3 exons. Notable is the large first exon encoding the extracellular region, including 6 cadherin domains and a transmembrane region. Alternative splicing yields isoforms with unique cytoplasmic tails. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206023