

## Product datasheet for **RG212346**

### PCDH11X (NM\_032969) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH11X (NM_032969) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDH11X
Synonyms:	PCDH-X; PCDH-Y; PCDH11; PCDH11Y; PCDH22; PCDHX; PPP1R119
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212346 representing NM_032969 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTTGTGTCCGGGACGTACATTTTCGCGGTCTGCTAGCATGCGTGGTGTTCCTACTCTGGCGCCC  
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TAATTGTGCTGATTCCAAACAAGTCTTGACAACGCTATGCAGTTCAAGCTAGTGTACAAGACCGGA  
GATGTGCCACTGATTGCAATTGAAGAGGATACTGGTGAGATCTTCACTACTGGCGCTCGCATTGATCGT  
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ATGGATGCAGACAGTGGGCCTAATGCTAAGATCAATTACCTGCTAGGCCCTGATGCTCCACCTGAATTCA  
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AATTAAGTCATTCTTTGACAACCTTCACTCCACGCCAACAGGCCAGACCGTCCAGAGGTGATTCCTCC  
ATTATGGAAGAACATCCCTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG212346 representing NM\_032969  
 Red=Cloning site Green=Tags(s)

MDLLSGTYIFAVLLACVVFHSGAQEKNYTIREEMPENVLIGDLLKDLNLSLIPNKSLTTAMQFKLVYKGTG  
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 VDNDTGMNAEVRSIVGGNTRDLFAIDQETGNITLMEKCDVTDLGLHRVLVKANDLGQPDLSFSVIVNL  
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 LEEQTMGKYNWVTTPTTFKPDSPDLARHYKSASPQAFQIQPETPLNSKHIIQELPLDNTFVACDSISK  
 CSSSSSDPYSVSDCGYPVTTFEVPSVHTRPPMKEVVRCTPMKESTTMEIWIHPQPQSQRRTFHLPEG  
 SQESSSDGGLGDHDAGSLTSTSHGLPLGYPQEEYFDRA TPNRTEGDGNSDPESTFIPGLKAAEITVQP  
 TVEEASDNCTQECLIIYGHSDACWMPASLDHSSSSQAQASALCHSPPLSQASTQHHSRVRTQTIACHSPP  
 VTQTIACHSPPPIQVSAHHSPLVQATALHHSPPSAQASALCYSPLAQAAAISHSSPLQVIALHRS  
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 IMEEHPL

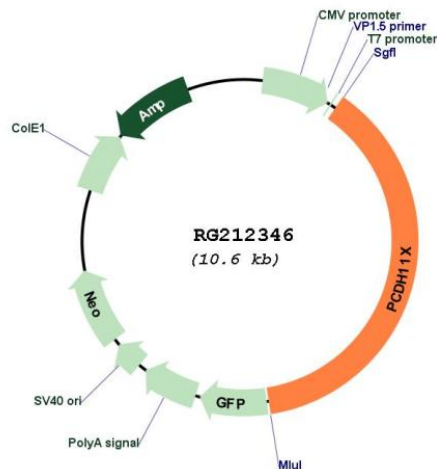
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_032969

**ORF Size:** 4011 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\\_032969.4](#)

**RefSeq Size:** 9160 bp

**RefSeq ORF:** 4014 bp

**Locus ID:** 27328

**UniProt ID:** [Q9BZA7](#)

**Cytogenetics:** Xq21.31

**Domains:** CA

**Protein Families:** Transmembrane

**Gene Summary:** This gene belongs to the protocadherin gene family, a subfamily of the cadherin superfamily. The encoded protein consists of an extracellular domain containing 7 cadherin repeats, a transmembrane domain and a cytoplasmic tail that differs from those of the classical cadherins. The gene is located in a major X/Y block of homology and its Y homolog, despite divergence leading to coding region changes, is the most closely related cadherin family member. The protein is thought to play a fundamental role in cell-cell recognition essential for the segmental development and function of the central nervous system. Disruption of this gene may be associated with developmental dyslexia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]