

## Product datasheet for **RG215708**

### PCDH11X (NM\_014522) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCDH11X (NM_014522) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDH11X
Synonyms:	PCDH-X; PCDH11; PCDHX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215708 representing NM_014522 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTTGTTCGGGACGTACATTTTCGCGGTCTGCTAGCATGCGTGGTGTTCCTACTCTGGCGCC  
AGGAGAAAACTACACCATCCGAGAAGAAATGCCAGAAAACGTCCTGATAGGCGACTTGTGAAAGACCT  
TAATTGTGCTGATTCCAAACAAGTCTTGACAACGCTATGCAGTTCAAGCTAGTGTACAAGACCGGA  
GATGTGCCACTGATTGCAATTGAAGAGGATACTGGTGAGATCTTCACTACTGGCGCTCGCATTGATCGT  
AGAAATATGTGCTGGTATCCCAAGGGATGAGCATTGCTTTTATGAAGTGGAGGTTGCCATTTTGGCGGA  
TGAATATTTAGACTGGTTAAGATACGTTTTCTGATAGAAGATATAAATGATAATGCACCATTGTTCCCA  
GCAACAGTTATCAACATATCAATTCCAGAGAACTCGGCTATAAACTCTAAATATACTCTCCAGCGGCTG  
TTGATCCTGACGTAGGAATAAACGGAGTTCAAACTACGAACTAATTAAGAGTCAAAACATTTTTGGCCT  
CGATGTCATTGAAACACCAGAAGGAGACAAGATGCCACAACGATTTGTTCAAAGGAGTTAGATAGGGAA  
GAGAAGGATACCTACGTGATGAAAGTAAAGTTGAAGATGGTGGCTTTCCTCAAAGATCCAGTACTGCTA  
TTTTGCAAGTGAAGTACTGATACAAATGACAACCCAGTCTTTAAGGAGACAGAGATTGAAGTCAG  
TATACCAGAAAAATGCTCCTGTAGGCACTTCAGTGACACAGCTCCATGCCACAGATGCTGACATAGGTGAA  
AATGCCAAGATCCACTTCTTTTCAGCAATCTAGTCTCCAACATTGCCAGGAGATTATTTACCTCAATG  
CCACTGGACTTATCACAATCAAAGAACCCTGGATAGGGAAGAAACACCAAAACCACAAGTTACTGGT  
TTTGGCAAGTGAAGTGGATTGATGCCAGCAAGAGCAATGGTGGTAAATGTTACAGATGTCAATGAT  
AATGTCCCATCCATTGACATAAGATACATCGTCAATCCTGTCAATGACACAGTTGTTCTTTTCAGAAAATA  
TTCCACTCAACACCAAAATGCTCTCATAACTGTGACGGATAAGGATGCGGACCAATAATGGCAGGGTGC  
ATGCTTACAGATCATGAAATCCCTTTTCAGATTAAGGCCAGTATTCAGTAATCAGTTCTCTCTGGAGACT  
GCAGCATATCTTGACTATGAGTCCAAAAAGAATATGCCATTAATTAAGTGGCTGCAGATGCTGGCAAC  
CTCCTTTGAATCAGTCAGCAATGCTCTTCATCAAAGTAAAGATGAAATGACAATGCTCCAGTTTTAC  
CCAGTCTTTCGTAACGTTTCTATTCTGAGAATAACTCTCTGGCATCCAGTTGACGAAAGTAAGTGCA



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ATGGATGCAGACAGTGGGCCTAATGCTAAGATCAATTACCTGCTAGGCCCTGATGCTCCACCTGAATTCA  
 GCCTGGATTGTCGTACAGGCATGCTGACTGTAGTGAAGAACTAGATAGAGAAAAAGAGGATAAATATTT  
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 ATTTGGCCCGACACTACAATCTGCCTCTCCACAGCCTGCCTTCCAAATTCAGCCTGAAACTCCCCTGAA  
 TTCGAAGCACCACATCATCCAAGAACTGCCTCTCGATAACACCTTTGTGGCCTGTACTCTATCTCCAAG  
 TGTTCTCAAGCAGTTCAGATCCCTACAGCGTTTCTGACTGTGGCTATCCAGTGACGACCTTCGAGGTAC  
 CTGTGTCGGTACACACCAGCCGGTAGGTATCCAAGTTTCTAACACAACCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215708 representing NM\_014522  
 Red=Cloning site Green=Tags(s)

MDLLSGTYIFAVLLACVVFHSGAQEKNYTIREEMPENVLIGDLLKDLNLSLIPNKSLTTAMQFKLVYKTG  
 DVPLIRIEEDTGEIFTTGARIDREKLCAGIPRDEHCFYEVEVAILPDEIFRLVKIRFLIEDINDNAPLFP  
 ATVINISIPENSAINSKYTLPAAVDPDVGINGVQNYELIKSQNIFGLDVIETPEGDKMPQLIVQKELDRE  
 EKDTYVMKVKVEDGGFPQRSSTAILQVSVTDNDNHPVFKETEIEVSIPENAPVGTSVTQLHATDADIGE  
 NAKIHFSFNLVSNIAARRLFHLNATTGLITIKEPLDREETPNHKLLVLASDGGLMPARAMVLVNVTDVND  
 NVPSIDIRYIVNPVNDTVVLSENIPLNTKIALITVTDKADHNGRVTCFTDHEIPFRLRPVFSNQFLLLET  
 AAYLDYESTKEYAIKLLAADAGKPLNQSAMLFIKVKDENDNAPVFTQSFVTVSIPENNSPGIQLTKVSA  
 MDADSGPNAKINYLLGPDAPPEFSLDCRTGMLTVVKKLDREKEDKYLFTILAKDNGVPLTSNVTVFVSI  
 IDQNDNSPVFTHNEYNFVYPENLPRHGTVGLITVTDPDYGDNSAVTLSILDENDDFTIDSQTVIRPNIS  
 FDREKQESYTFYVKAEDGGRVSRSSSAKVTINVVDVNDNKPVFIVPPSNCSYELVLPSTNPGTVVFQVIA  
 VDNDDTGMNAEVYSIVGGNTRDLFAIDQETGNITLMEKCDVTDLGLHRVLYKANDLGQPDLSFSVIVNL  
 FVNESVTNATLINELVRKSTEAPVTPNTEIADVSSPTSDYVKILVAAVAGTITVVVIFITAVVRCRQAP  
 HLKAAQKNQNSEWATPNPENRQMIMMKKKKKKKHSPKNLLNFVTIEETKADDVSDGNGRVTLDLPID  
 LEEQTMGKYNWVTTPTTFKPDSPDLARHYKSASPQAFQIQPETPLNSKHIIQELPLDNTFVACDSISK  
 CSSSSDPYSVSDCGYPVTTFEVPSVHTRPVGIQVSNTTF

TRTRPLE – GFP Tag – V

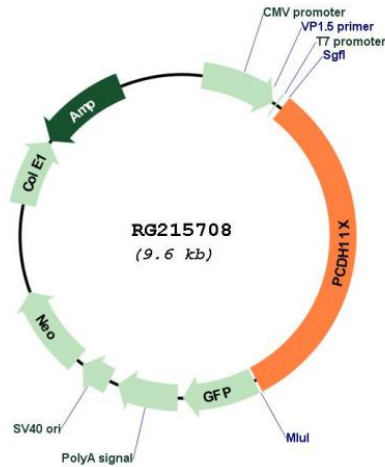
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_014522

ORF Size: 3063 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_014522.1</a></u> , <u><a href="#">NP_055337.1</a></u>
<b>RefSeq Size:</b>	4603 bp
<b>RefSeq ORF:</b>	3066 bp
<b>Locus ID:</b>	27328
<b>Cytogenetics:</b>	Xq21.31
<b>Domains:</b>	CA
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]