

## Product datasheet for **RG234248**

### Nectin 3 (NECTIN3) (NM\_001243288) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nectin 3 (NECTIN3) (NM_001243288) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nectin 3
Synonyms:	CD113; CDW113; NECTIN-3; PPR3; PRR3; PVRL3; PVRR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234248 representing NM\_001243288  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGAGGGTTGGCGATGGTGTCTCGTGCGCCGAACCCGGGTTTGTCCGGGACCCTTACTTCTCT  
 GCTCATTCTCTGGGAACCTCGTGCCTTAGCTGGACCAATTATTGTGGAGCCACATGTCACAGCAGTATG  
 GGGAAAGAATGTTTCATTAAGTGTAAATTGAAGTAAATGAAACCATAACACAGATTTTCATGGGAGAAG  
 ATACATGGCAAAAGTTCACAGACTGTTGCAGTTCACCATCCCAATATGGATTCTCTGTTCAAGGAGAAT  
 ATCAGGGAAGAGTCTTGTAAAAAATTACTCACTTAATGATGCAACAATTACTCTGCATAACATAGGATT  
 CTCTGATTCTGGAAAATACATCTGCAAAGCTGTTACATCCCGCTTGGAAATGCCAGTCTCTACAAC  
 GTAAGTGTGTAGTTGAACCCACTGTGAGCCTGATAAAAGGGCCAGATTCTTTAATTGATGGAGGAAATG  
 AAACAGTAGCAGCCATTTGCATCGCAGCCACTGGAAAACCCGTTGCACATATTGACTGGGAAAGTGTCT  
 TGGTGAATGGAATCCACTACAACCTTTTCCAAATGAAACGGCAACGATTATCAGCCAGTACAAGCTA  
 TTTCCAACAGATTTGCTAGAGGAAGGCGAATTAATTGTGTTGTAACATCCAGCCTTGGAAAAGGACA  
 TCCGATACTCTTTCATATTAGACATACAGTATGCTCCTGAAGTTTCGGTAACAGGATATGATGGAATTG  
 GTTTGTAGGAAGAAAAGGTGTTAATCTCAAATGTAATGCTGATGCAAAATCCACCACCTTCAAATCTGTG  
 TGGAGCAGGTTGGATGGACAATGGCCTGATGGTTTATTGGCTTACAGCAATACTCTTCAATTTGTCCATC  
 CATTGACTTTCAATTATCTGGTGTATATCTGTAAAGTGACCAATCCCTTGGTCAAAGAAGTGACCA  
 AAAAGTCATCTACATTTAGATGTTCCATTTAAGCAGACCTCTCCATAGCTGTAGCTGGAGCGGTAATT  
 GGAGCTGTTCTTGCCTTTTCATCATTGCTATCTTTGTGACTGTGCTGCTGACTCCTCGAAAAAAGAC  
 CATCCTATCTTGACAAAGTGATTGACCTCCACCACACATAAACCACCTCCTCTGTATGAAGAAGGATC  
 CCCACCTTGCCTCAGAAAGACCTATTTAGCCTGAACACTTGCCTTTCAGACTCAGTTCAAAGAAAGA  
 GAAGTTGGCAATCTTACGACTCTAATGGACTAAATAGCAGGAGTTTGTACTATGAAGATGAGAATCCAG  
 TTGGGGAAGATGGCATTACGAGATGTACCCCTTTACAATCAAATGTGCTACCAAGACCGGAGCCCTGG  
 CAAACATCATCAAATAACGACCCTAAGAGAGTCTACATCGACCCACGAGAACATTATGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234248 representing NM\_001243288  
 Red=Cloning site Green=Tags(s)

MAEGWRWCFVRRTPGLLRGPLLPRFSGNPRALAGPIIVEPHVTAVWGKNVSLKCLIEVNETITQISWEK  
 IHGKSSQTVAVHHPQYGFVQGEYQGRVLFKNYSLNDATITLHNIQFSDSGYICKAVTFPLGNAQSSTT  
 VTVLVEPTVSLIKGPDSDLIDGGNETVAAICIAATGKPVVAHIDWEGDLGEMESTTTSFPNETATIIISQYKL  
 FPTRFARGRRITCVVHKHPALEKDIRYSFILDIIQYAPEVSVTGYDGNWVFGKGVNLKCNADANPPPFKSV  
 WSRLDGQWPDGLLASDNTLHFVHPLTFNYSVYICKVTNSLGQRSDQKVIYISDVPFKQTSSIAVAGAVI  
 GAVLALFIIAIFVTVLLTPRKKRPSYLDKVIDLPPTHKPPPLYEERSPPLPQKDLFQPEHLPLQTQFKER  
 EVGNLQHSNGLNSRFDYEDENPVGEDGIQMYPLYNQMCYQDRSPGKHHQNDPKRVYIDPREHYV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001243288

ORF Size: 1461 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\\_001243288.2](#)

RefSeq Size: 2522 bp

RefSeq ORF: 1464 bp

Locus ID: 25945

UniProt ID: [Q9NQ53](#)

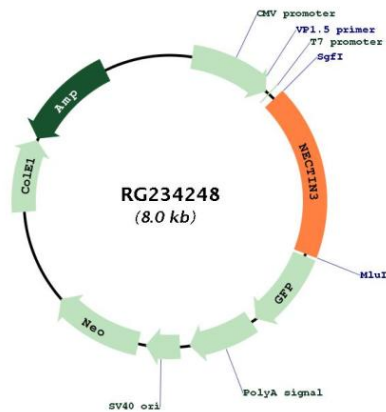
**Cytogenetics:** 3q13.13

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Adherens junction, Cell adhesion molecules (CAMs)

**Gene Summary:** This gene encodes a member of the nectin family of proteins, which function as adhesion molecules at adherens junctions. This family member interacts with other nectin-like proteins and with afadin, a filamentous actin-binding protein involved in the regulation of directional motility, cell proliferation and survival. This gene plays a role in ocular development involving the ciliary body. Mutations in this gene are believed to result in congenital ocular defects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]

**Product images:**



Circular map for RG234248