

Product datasheet for RC221024

Plexin A2 (PLXNA2) (NM_025179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plexin A2 (PLXNA2) (NM_025179) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plexin A2
Synonyms:	OCT; PLXN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221024 representing NM_025179 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC221024 representing NM_025179
 Red=Cloning site Green=Tags(s)

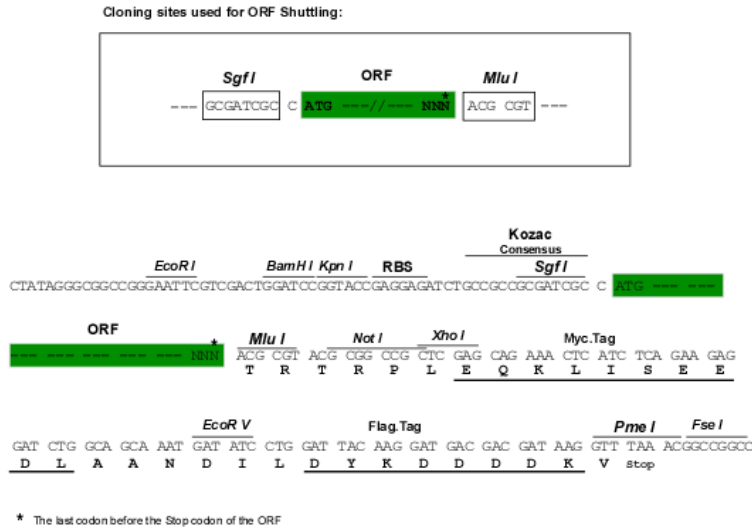
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 SIES

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Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_025179

ORF Size: 5682 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_025179.2](#), [NP_079455.2](#)

RefSeq Size: 6263 bp

RefSeq ORF: 5685 bp

Locus ID: 5362

UniProt ID: [O75051](#)

Cytogenetics: 1q32.2

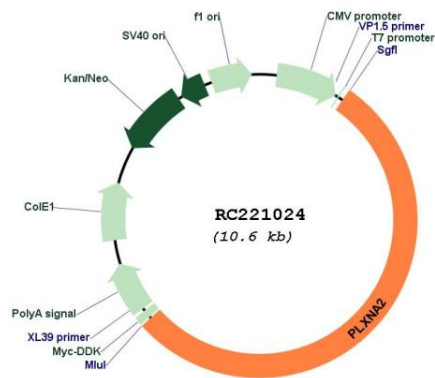
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Axon guidance

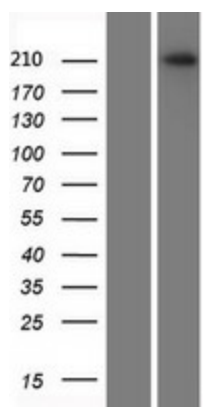
MW: 210.9 kDa

Gene Summary: This gene encodes a member of the plexin-A family of semaphorin co-receptors. Semaphorins are a large family of secreted or membrane-bound proteins that mediate repulsive effects on axon pathfinding during nervous system development. A subset of semaphorins are recognized by plexin-A/neuropilin transmembrane receptor complexes, triggering a cellular signal transduction cascade that leads to axon repulsion. This plexin-A family member is thought to transduce signals from semaphorin-3A and -3C. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221024



Western blot validation of overexpression lysate (Cat# [LY410858]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221024 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).