

Product datasheet for **RG212456**

Plexin A3 (PLXNA3) (NM_017514) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plexin A3 (PLXNA3) (NM_017514) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLXNA3
Synonyms:	6.3; HSSEXGENE; PLXN3; PLXN4; XAP-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212456 representing NM_017514 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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GTGCCCTCGTGGTGACAGACACCACGCTTACCCACCTGGCTGTGCACCGGGTACTGGGGAGGTGTTCTG
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 GTCCAGCGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212456 representing NM_017514
 Red=Cloning site Green=Tags(s)

MPSVCLLLLLFLAVGGALGNRPFRFVVDTTLTHLAVHRVTGEVFGAVNRVFKLAPNLTELRAHVTGP
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 IPSDTLSLYPAFDIYYIYGFVSASFVYFLTLQLDQTQTLTDTAGEKFFTSKIVRMCAGDSEFYSYVEFPI
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 LRSRAPMITPDQETGTLWHLVKNHHDHREGDRGSKMVSEIYLTRLLATKGTLQKFVDDL FETV FSTA
 HRGSALPLA IKYMFDFLDEQADQRQISDPDVRHTWKS NCLPLRFWVNVIKNPQVFVDIHKNSITDA CLSV
 VAQTFMDCSCTSEHRLGKDSPSNKL L YAKDIPNYKSWVERYYRDI AKMASISDQMDAYLVEQSRLHASD
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TRTRPLE - GFP Tag - V

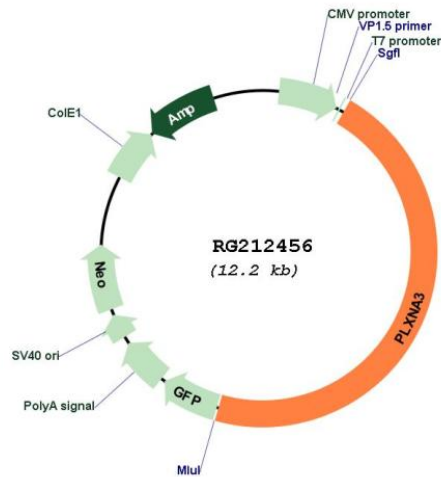
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017514
 ORF Size: 5613 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:	<ol style="list-style-type: none">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_017514.3
RefSeq Size:	6762 bp
RefSeq ORF:	5616 bp
Locus ID:	55558
UniProt ID:	P51805
Cytogenetics:	Xq28
Domains:	Sema, PSI, IPT, PSI
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance
Gene Summary:	This gene encodes a member of the plexin class of proteins. The encoded protein is a class 3 semaphorin receptor, and may be involved in cytoskeletal remodeling and as well as apoptosis. Studies of a similar gene in zebrafish suggest that it is important for axon pathfinding in the developing nervous system. This gene may be associated with tumor progression. [provided by RefSeq, Aug 2013]