

Product datasheet for **RG240149**

ROBO2 (NM_001290040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROBO2 (NM_001290040) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ROBO2
Synonyms:	SAX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240149 representing NM_001290040. Blue=ORF Red=Cloning site Green=Tag(s)

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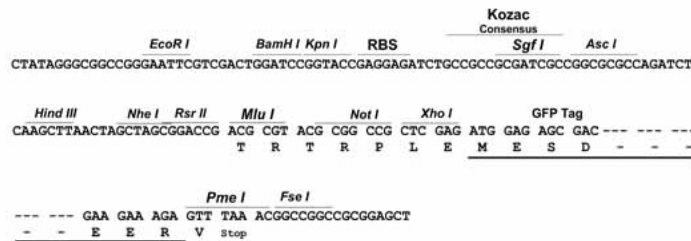
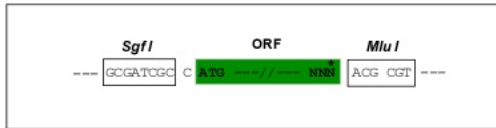
Protein Sequence: >Peptide sequence encoded by RG240149
 Blue=ORF Red=Cloning site Green=Tag(s)

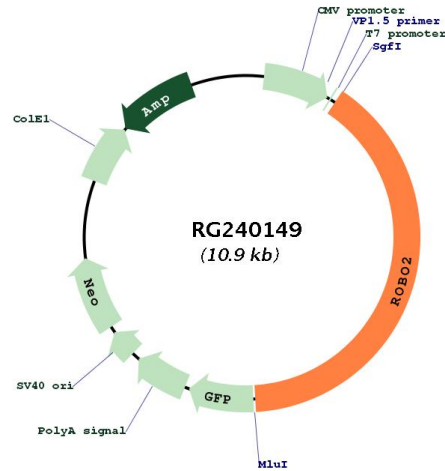
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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001290040

ORF Size: 4329 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).

RefSeq: [NM_001290040.2](#)

RefSeq Size: 8884 bp

RefSeq ORF:	4332 bp
Locus ID:	6092
UniProt ID:	Q9HCK4
Cytogenetics:	3p12.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance
MW:	158.2 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the ROBO family, part of the immunoglobulin superfamily of proteins that are highly conserved from fly to human. The encoded protein is a transmembrane receptor for the slit homolog 2 protein and functions in axon guidance and cell migration. Mutations in this gene are associated with vesicoureteral reflux, characterized by the backward flow of urine from the bladder into the ureters or the kidney. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]</p>