

## Product datasheet for **RG237964**

### Eph receptor A6 (EPHA6) (NM\_001278300) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A6 (EPHA6) (NM_001278300) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPHA6
Synonyms:	EHK-2; EHK2; EK12; EPA6; HEK12; PRO57066
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237964 representing NM_001278300. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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AGTGGCCAGACCAGAAAGCAATGTGACAAGAGAGATAACCCTCCAACAGACCTCTTCCAACCTCTAACA
CTTAACCTCTGCTATTCTGCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237964  
 Blue=ORF Red=Cloning site Green=Tag(s)

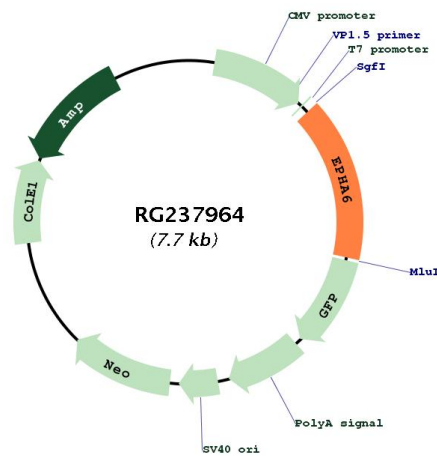
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 PGKREIPVAIKTLKGGHMDRQRDFLREASIMGQFDHPNIRLEGVVTKRSFPAIGVEAFPCPSFLRAGF  
 LNSIQAPHPVPGGSLPPRIPAGRPMIVVEYMENGLSDFLRKHDGHFTVIQLVGLRGIASGMKYLS  
 DMGYVHRDLAARNILVNSNLVCKVSDFLSRVLEDDPEAAYTTTTRPTNHNKEQSELVKEDGLESLCEQC  
 ESSSGYGTGLVLMWKRNRAMGASGQTRKQCDKRDNPPTDLFQTLTLNLCYSA  
**TRTRPLEMESDEGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
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 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



<b>ACCN:</b>	NM_001278300
<b>ORF Size:</b>	1194 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>RefSeq:</b>	<a href="#">NM_001278300.2</a>
<b>RefSeq Size:</b>	1746 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	285220
<b>UniProt ID:</b>	<a href="#">Q9UF33</a>
<b>Cytogenetics:</b>	3q11.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	44.9 kDa
<b>Gene Summary:</b>	Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling (By similarity).[UniProtKB/Swiss-Prot Function]