

## Product datasheet for **RG239907**

### Eph receptor A5 (EPHA5) (NM\_001281765) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A5 (EPHA5) (NM_001281765) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eph receptor A5
Synonyms:	CEK7; EHK-1; EHK1; EK7; HEK7; TYRO4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239907 representing NM_001281765. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGGCCGGGAATTCGTCGACTG
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ACCCAGCGTCCCTGGCCGGCTGCTACTCTGCACCTCGACGGGCTCCCCTCTGGACGTGCCTTCTCCTG
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AATGGGAGAAACATCAAGGAAAACCAATACATCAAAATGATACCATGCTGCCGATGAAAGCTTTACA
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AAGGGATTTTATCTTGTCTTTCAAGATGTTGGTGTGCTTGCATTGCTCTGGTTTCTGTGCGTGATACTAT
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TTTAAAAGGACCAAGAGACCAGCTACACGATTATCAAATCTAAAGAGACAACTATTACTGCAGAGGGC  
 TTGAAACCAGCTTCAGTTTATGTCTTCCAAATTCGAGCACGTACAGCAGCAGGCTATGGTGTCTTCAGT  
 CGAAGATTTGAGTTTAAACCACCCAGTGTGAGTTCAGCATCCAGCGATCAAAGCCAGATTCTGTGA  
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 CTGCCAAGCCCATGGATTGTCTGCTGCTCTCTATCAGTTAATGCTGGATTGCTGGCAGAAAGAGCGA  
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 CTTGTGCGTCCAGAGAAGATCATGAACAGCCTTCAAGAAATGAAGGTGCAGCTGGTAAACGGAATG  
 TGCCATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:**

>Peptide sequence encoded by RG239907  
 Blue=ORF Red=Cloning site Green=Tag(s)

MRGSGPRGAGRRRPPSGGDTPITPASLAGCYSAPRRAPLWTCLLLCAALRTLLASPSNEVNLDSRTV  
 MGDLGWIAFPKNGWEEIEVDENYAPIHTYQVCKVMEQNQNNWLLTSWISNEGASRI FIELKFLRDCN  
 SLPGLGTCKETFNMYEFESDDQNGRNIKENQYIKIDTIAADESFTLDELGDRVMKLNTEVRDVGPLSK  
 KGFYLAQVDGACIALVSVRVYKCPVVRHLAVFPDITGADSSQLLEVSGSCVNHVSDTEPPKMH  
 SAEGEWLVPIGKCMKAGYEEKNGTCQVCRPGFFKASPHIQSCGKCPPHSYTHEEASTSCVCEKDYFRR  
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 LPRQSLKNTSVMVDLLAHTNYTFEIEAVNGVSDLSPGARQYVSNVTTNQAAPSPVTNVKKGKIAKN  
 SISLSWQEPDRPNGIILEYEIKYFEKDQETSYYIIKSKEITITAEGLKPASVYVFQIRARTAAGYGVFS  
 RRFEFETTPVSVAASSDQSQIPVIAVSVTVGVILLAVVIGVLLSGSCCECGGRASSLCAVAHPSLIWR  
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 CSGRLKLPKREL PVAIKTLKVGYTEKQRRDFLGEASIMQFDHPNIIHLEGVVTKSKPVMIVTEYMEN  
 GSLDTFLKNDGQFTVIQLVGLMRGISAGMKYLSDMGYVHRDLAARNILINSNLVCKVSDFLSRVLED  
 DPEAAVYTRGGKIPIRWTAPEAIAFRKFTSASDVVSYGIVMWEVVSYGERPYWEMTNQDVIKAVEEYR  
 LPSPMDCPAALYQLMLDCWQKERNRPFDEIVNMLDKLIRNPSSLKTLVNASCRVSNLLAEHSPLGSG  
 AYRSVGEWLEAIKMGRYTEIFMENGYSMDAVAQVTLLEDLRLGVTLVGHQKIMNSLQEMKVQLVNGM  
 VPL

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGYTNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPE  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:**

Sgfl-MluI

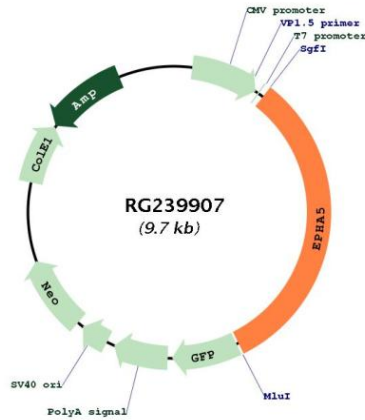
**Cloning Scheme:**


<b>ACCN:</b>	NM_001281765
<b>ORF Size:</b>	3114 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_001281765.2</a> , <a href="#">NP_001268694.1</a>
<b>RefSeq Size:</b>	8421 bp
<b>RefSeq ORF:</b>	3117 bp
<b>Locus ID:</b>	2044
<b>UniProt ID:</b>	<a href="#">P54756</a>
<b>Cytogenetics:</b>	4q13.1-q13.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	115.3 kDa

**Gene Summary:**

This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Aug 2013]

**Product images:**



Circular map for RG239907