

Product datasheet for **RG216314**

Eph receptor A6 (EPHA6) (NM_173655) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A6 (EPHA6) (NM_173655) 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:	>RG216314 representing NM_173655 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGACTCTCCATTTCAAGTGACAAAAGTACTGGCTTAATGAAAAGTGGGACTTTATTGCCTCAG
CTTCTGACATGGCAGCAGAACAAGGACAGATTCTCGTAGCCACCGCCGCTGTTGGCGGATTCACTCT
CCTCGTCATCCTCACTTTATTCTTCTTGATCACTGGGAGATGTCAGTGGTACATAAAAGCCAAGATGAAG
TCAGAAGAGAAGAGAAGAAACCCTTACAGAATGGCATTTCGCTTCCCGGAATTAACCTTACATTG
ATCCAGATACATATGAAGACCCATCCCTAGCAGTCCATGAATTTGCAAAGGAGATTGATCCCTCAAGAAT
TCGATTGAGAGAGTCATTGGGGCAGGTGAATTTGGAGAAGTCTGTAGTGGCGTTTGAAGACACCGGG
AAAAGAGAGATCCAGTTGCCATTAACCTTTGAAAGGTGGCCACATGGATCGGCAAGAAGAGATTTTC
TAAGAGAAGCTAGTATCATGGGCCAGTTTGACCATCCAACATCATTGCGCTAGAAGGGGTTGTCACCAA
AAGATCCTTCCCGGCCATTGGGGTGGAGGCGTTTTGCCCCAGCTTCTGAGGGCAGGGTTTTAAATAGC
ATCCAGGCCCCGATCCAGTGCCAGGGGAGGATCTTTGCCCCAGGATTCCTGCTGCGCAGACAGTAA
TGATTGTGGTGAATATATGGAGAATGGATCCCTAGACTCCTTTTTGCGGAAGCATGATGGCCACTTAC
AGTCATCCAGTTGGTGGGAATGCTCCGAGGCATTCATCAGGCATGAAGTATCTTTCTGATATGGGTTAT
GTTTCATCGAGACCTAGCGGCTCGGAATATACTGGTCAATAGCAACTTAGTATGCAAAGTTTCTGATTTTG
GTCTCTCCAGAGTCTGGAAGATGATCCAGAAGCTGCTTATACAACAAGTACCTCTTCCAAACTTAAC
ACTTAACCTCTGCTATTCTGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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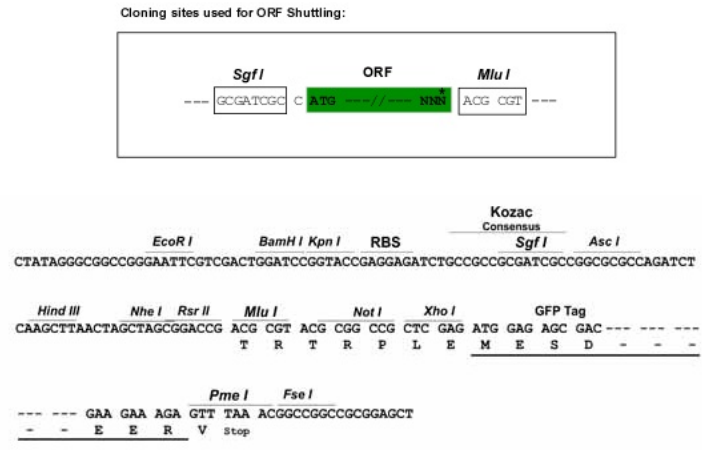
Protein Sequence: >RG216314 representing NM_173655
 Red=Cloning site Green=Tags(s)

MKDSPFQVTKLYWLNEKWDFIASASDMAAEQGQILVIATAAVGGFTLLVILTLFFLITGRCQWYIKAKMK
 SEEKRRNHLQNGHLRFPGIKTYIDPDTYEDPSLAVHEFAKEIDPSRIRIERVIGAGEFGEVCSGRLKTPG
 KREIPVAIKTLKGGHMDRQRDFLREASIMGQFDHPNIIRLEGVVTKRSFPAIGVEAFPCPSFLRAGFLNS
 IQAPHPVPGGSLPPRIPAGRPVMIIVVEYMENGLSDSFLRKHDGHFTVIQLVGLMRGIASGMKYLSDMGY
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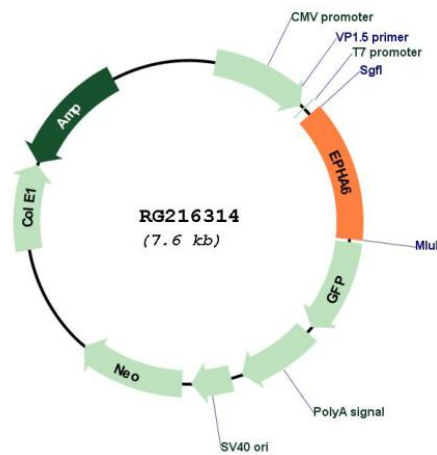
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173655

ORF Size: 1002 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_173655.4
RefSeq Size:	1619 bp
RefSeq ORF:	1005 bp
Locus ID:	285220
UniProt ID:	Q9UF33
Cytogenetics:	3q11.2
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance
Gene Summary:	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]