

## Product datasheet for **RG210635**

### Ephrin A1 (EFNA1) (NM\_004428) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ephrin A1 (EFNA1) (NM\_004428) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ephrin A1  
**Synonyms:** B61; ECKLG; EFL1; EPLG1; GMAN; LERK-1; LERK1; TNFAIP4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210635 representing NM\_004428  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGTTCCTCTGGGCCCTCTCTGGGTCTGTGCTGCAGTCTGGCCGCTGCTGATCGCCACACCGTCT  
 TCTGGAACAGTTCAAATCCCAAGTTCGGGAATGAGGACTACACCATACATGTGCAGCTGAATGACTACGT  
 GGACATCATCTGTCGCACTATGAAGATCACTCTGTGGCAGACGCTGCCATGGAGCAGTACATACTGTAC  
 CTGGTGGAGCATGAGGAGTACCAGCTGTGCCAGCCCCAGTCCAAGGACCAAGTCCCGTGGCAGTGAAC  
 GGCCAGTGCCAAGCATGGCCCGGAGAAGCTGTCTGAGAAGTCCAGCGTTTACACCTTTCACCCTGGG  
 CAAGGAGTTCAAAGAAGGACACAGCTACTACTACATCTCAAACCCATCCACCAGCATGAAGACCGTGC  
 TTGAGGTTGAAGGTGACTGTCAAGTGGCAAATCACTCACAGTCCCTCAGGCCCATGACAATCCACAGGAGA  
 AGAGACTTGACAGCAGATGACCCAGAGGTGCGGGTCTACATAGCATCGGTACAGTGTGCCCCACGCT  
 CTCCCACTTGCTGGACTGTGCTGCTCTTCCACTTCTGCTGCTGCAAACCCCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG210635 representing NM\_004428  
 Red=Cloning site Green=Tags(s)

MEFLWAPLLGLCCSLAAADRHTVFNSSNPKFRNEDYTIHVQLNDYVDIICPHYEDHSVADAAMEQYILY  
 LVEHEEYQLCQPQSKDQVRWQCNRPSAKHGPEKLSKFRFTPFLLGKEFKEGHSYYYISKPIHQHEDRC  
 LRLKVTVSGKITHSPQAHDNPQEKRLAADDPEVRVLHSHSAAPRLFPLAWTVLLLPLLLLQTP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_004428

**ORF Size:** 615 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:**

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\\_004428.3](#)

**RefSeq Size:** 1590 bp

**RefSeq ORF:** 618 bp

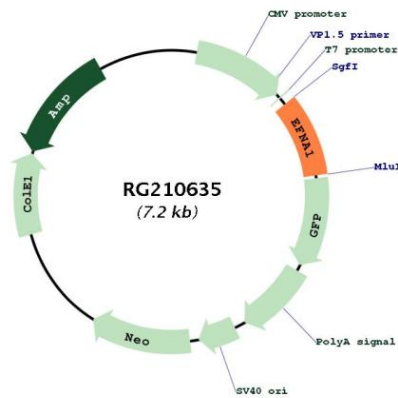
**Locus ID:** 1942

**UniProt ID:** [P20827](#)

**Cytogenetics:** 1q22

<b>Domains:</b>	Ephrin
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	<p>This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. This gene encodes an EFNA class ephrin which binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variants that encode different isoforms were identified through sequence analysis. [provided by RefSeq, Jul 2008]</p>

**Product images:**



Circular map for RG210635