

## Product datasheet for **TR320327**

### Eph receptor A2 (EPHA2) Human shRNA Plasmid Kit (Locus ID 1969)

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | shRNA Plasmids  |
| Product Name:             | Eph receptor A2 (EPHA2) Human shRNA Plasmid Kit (Locus ID 1969)   |
| Locus ID:                 | 1969  |
| Synonyms:                 | ARCC2; CTPA; CTPP1; CTRCT6; ECK   |
| Vector:                   | pRS (TR20003)   |
| E. coli Selection:        | Ampicillin  |
| Mammalian Cell Selection: | Puromycin   |
| Format:                   | Retroviral plasmids   |
| Components:               | EPHA2 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 1969). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.  |
| RefSeq:                   | <a href="#">NM_004431</a> , <a href="#">NM_001329090</a> , <a href="#">NM_004431.1</a> , <a href="#">NM_004431.2</a> , <a href="#">NM_004431.3</a> , <a href="#">NM_004431.4</a> , <a href="#">BC037166</a> , <a href="#">BC037166.2</a> , <a href="#">BC008655</a> , <a href="#">NM_004431.5</a>   |
| UniProt ID:               | <a href="#">P29317</a>  |
| 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. This gene encodes a protein that binds ephrin-A ligands. Mutations in this gene are the cause of certain genetically-related cataract disorders.[provided by RefSeq, May 2010] |
| shRNA Design:             | These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .  |



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).