**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for TR515175

## Gabrg2 Mouse shRNA Plasmid (Locus ID 14406)

### Product data:

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|---|---|
| **Product Type:** | shRNA Plasmids |
| **Product Name:** | Gabrg2 Mouse shRNA Plasmid (Locus ID 14406) |
| **Locus ID:** | 14406 |
| **Synonyms:** | GABAA-R; Gabrg-2; gamma2 |
| **Vector:** | pRS (TR20003) |
| **E. coli Selection:** | Ampicillin |
| **Mammalian Cell Selection:** | Puromycin |
| **Format:** | Retroviral plasmids |
| **Components:** | Gabrg2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 14406). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free. |
| **RefSeq:** | BC031762, NM_008073, NM_177408, NM_008073.1, NM_008073.2, NM_008073.3, NM_177408.1, NM_177408.2, NM_177408.3, NM_177408.4, NM_177408.5, NM_177408.6, NM_001362655, NM_001362656, NM_177408.7, NM_008073.4 |
| **UniProt ID:** | P22723 |
| **Summary:** | This gene encodes a gamma-aminobutyric acid (GABA)-A receptor subunit, which is a member of the ligand-gated ion channel family. GABA is the major inhibitory neurotransmitter in the adult central nervous system, and conversely exhibits an excitatory function during development. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. This gene encodes one of three gamma subunits in mammals, which contain the binding site for benzodiazepine drugs. Several mutations in this gene are associated with epileptic seizures, and genetic knockdown is associated with anxiety behavior. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013] |
| **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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service. |

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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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).