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# Product datasheet for TL301415

## SPG3A (ATL1) Human shRNA Plasmid Kit (Locus ID 51062)

### Product data:

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|---|---|
| **Product Type:** | shRNA Plasmids |
| **Product Name:** | SPG3A (ATL1) Human shRNA Plasmid Kit (Locus ID 51062) |
| **Locus ID:** | 51062 |
| **Synonyms:** | AD-FSP; atlastin1; FSP1; GBP3; HSN1D; SPG3; SPG3A |
| **Vector:** | pGFP-C-shLenti (TR30023) |
| **E. coli Selection:** | Chloramphenicol (34 ug/ml) |
| **Mammalian Cell Selection:** | Puromycin |
| **Format:** | Lentiviral plasmids |
| **Components:** | ATL1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 51062).<br>5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free. |
| **RefSeq:** | NM_001127713, NM_015915, NM_181598, NM_015915.1, NM_015915.2, NM_015915.3, NM_015915.4, NM_181598.1, NM_181598.2, NM_181598.3, NM_001127713.1, BC010708, BC010708.2, NM_015915.5 |
| **UniProt ID:** | Q8WXF7 |
| **Summary:** | The protein encoded by this gene is a GTPase and a Golgi body transmembrane protein. The encoded protein can form a homotetramer and has been shown to interact with spastin and with mitogen-activated protein kinase kinase kinase kinase 4. This protein may be involved in axonal maintenance as evidenced by the fact that defects in this gene are a cause of spastic paraplegia type 3. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| **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).