

## Product datasheet for **TR311572**

### MAPKBP1 Human shRNA Plasmid Kit (Locus ID 23005)

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | shRNA Plasmids   |
| Product Name:             | MAPKBP1 Human shRNA Plasmid Kit (Locus ID 23005)   |
| Locus ID:                 | 23005  |
| Synonyms:                 | JNKBP-1; JNKBP1; NPHP20  |
| Vector:                   | pRS (TR20003)  |
| E. coli Selection:        | Ampicillin   |
| Mammalian Cell Selection: | Puromycin  |
| Format:                   | Retroviral plasmids  |
| Components:               | MAPKBP1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 23005). 5µg purified plasmid DNA per construct<br>29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.  |
| RefSeq:                   | <a href="#">NM_001128608</a> , <a href="#">NM_001265611</a> , <a href="#">NM_014994</a> , <a href="#">NR_049761</a> , <a href="#">NR_049762</a> , <a href="#">NM_014994.1</a> , <a href="#">NM_014994.2</a> , <a href="#">NM_001128608.1</a> , <a href="#">NM_001265611.1</a> , <a href="#">BC114493</a> , <a href="#">BC036660</a> , <a href="#">BC111090</a> , <a href="#">BC113983</a> , <a href="#">NM_001265611.2</a> , <a href="#">NM_001128608.2</a>  |
| UniProt ID:               | <a href="#">Q60336</a>   |
| Summary:                  | This gene encodes a scaffold protein that regulates the JNK (c-Jun N-terminal kinase) and NOD2 (nucleotide-binding oligomerization domain-containing protein 2) signaling pathways. The encoded protein interacts with another related JNK pathway scaffold protein, WDR62, via a conserved dimerization domain, and enhances JNK signaling. This protein may play a role in bacterial immunity by binding to the NOD2 receptor and negatively regulating downstream antibacterial and pro-inflammatory signaling. Mutations in this gene that impair cellular localization of the encoded protein cause a form of nephronophthisis, an autosomal-recessive kidney disorder, in human patients. [provided by RefSeq, May 2017] |
| 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).