

Product datasheet for **TL313738**

KAT3A / CBP (CREBBP) Human shRNA Plasmid Kit (Locus ID 1387)

Product data:

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| Product Type: | shRNA Plasmids |
| Product Name: | KAT3A / CBP (CREBBP) Human shRNA Plasmid Kit (Locus ID 1387) |
| Locus ID: | 1387 |
| Synonyms: | CBP; KAT3A; MKHK1; RSTS; RSTS1 |
| Vector: | pGFP-C-shLenti (TR30023) |
| E. coli Selection: | Chloramphenicol (34 ug/ml) |
| Mammalian Cell Selection: | Puromycin |
| Format: | Lentiviral plasmids |
| Components: | CREBBP - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1387). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free. |
| RefSeq: | NM_001079846 , NM_004380 , NM_001079846.1 , NM_004380.1 , NM_004380.2 , BC036486 , NM_004380.3 |
| UniProt ID: | Q92793 |
| Summary: | This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMP-response element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. The protein encoded by this gene has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. This protein acetylates both histone and non-histone proteins. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS). Chromosomal translocations involving this gene have been associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2009] |



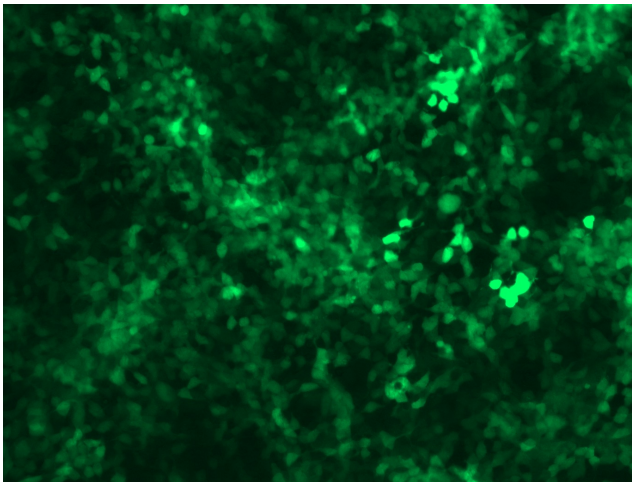
[View online »](#)

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](#).

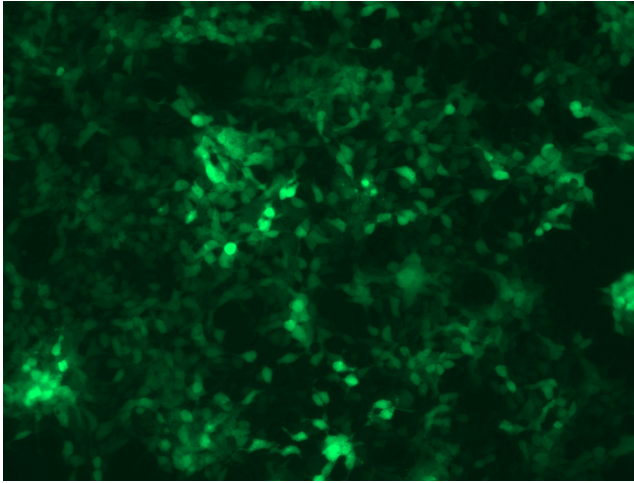
Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency 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).

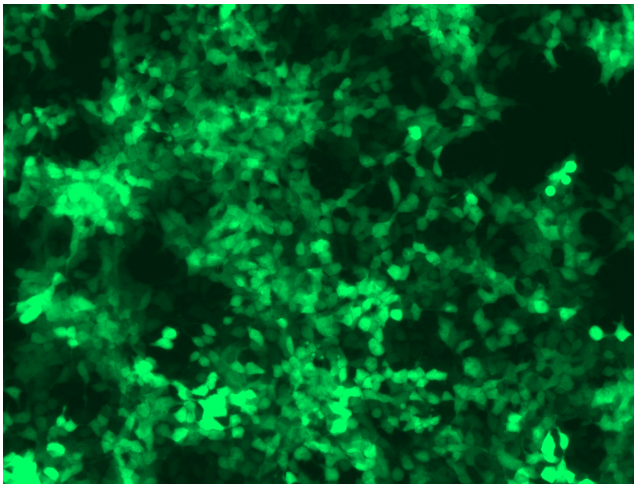
Product images:



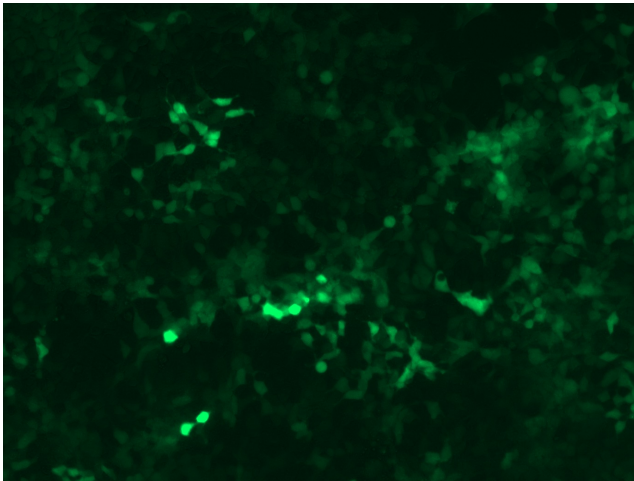
GFP signal was observed under microscope at 48 hours after transduction of TL313738A virus into HEK293 cells. TL313738A virus was prepared using lenti-shRNA TL313738A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL313738B virus into HEK293 cells. TL313738B virus was prepared using lenti-shRNA TL313738B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313738C] virus into HEK293 cells. [TL313738C] virus was prepared using lenti-shRNA [TL313738C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313738D] virus into HEK293 cells. [TL313738D] virus was prepared using lenti-shRNA [TL313738D] and [TR30037] packaging kit.