

## Product datasheet for **KN217324BN**

### **S6K1 (RPS6KB1) Human Gene Knockout Kit (CRISPR)**

#### Product data:

|               |  |
|---------------|--|
| Product Type: | Knockout Kits (CRISPR)   |
| Format:       | 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control   |
| Donor DNA:    | mBFP-Neo   |
| Symbol:       | S6K1   |
| Locus ID:     | 6198   |
| Components:   | <b>KN217324G1</b> , S6K1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)<br><b>KN217324G2</b> , S6K1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)<br><b>KN217324BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.<br><b>GE100003</b> , scramble sequence in pCas-Guide vector   |
| Disclaimer:   | These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.  |
| RefSeq:       | <a href="#">NM_001272042</a> , <a href="#">NM_001272043</a> , <a href="#">NM_001272044</a> , <a href="#">NM_001272060</a> , <a href="#">NM_003161</a> , <a href="#">NR_161462</a> , <a href="#">NM_001369670</a> , <a href="#">NM_001369673</a> , <a href="#">NM_001369675</a> , <a href="#">NM_001369677</a> , <a href="#">NM_001369678</a> , <a href="#">NR_161455</a> , <a href="#">NR_161456</a> , <a href="#">NR_161460</a> , <a href="#">NM_001369669</a> , <a href="#">NM_001369671</a> , <a href="#">NM_001369672</a> , <a href="#">NM_001369674</a> , <a href="#">NM_001369676</a> , <a href="#">NM_001369679</a> , <a href="#">NR_161457</a> , <a href="#">NR_161458</a> , <a href="#">NR_161459</a> , <a href="#">NR_161461</a> |
| UniProt ID:   | <a href="#">P23443</a>   |
| Synonyms:     | p70 S6KA; p70(S6K)-alpha; p70-alpha; p70-S6K; PS6K; S6K; S6K-beta-1; S6K1; STK14A  |
| Summary:      | This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17. [provided by RefSeq, Jan 2013]   |



[View online »](#)

## Product images:

