

## Product datasheet for **KN318458**

### Tuba1a Mouse Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Tuba1a
Locus ID:	22142
Components:	<p><b>KN318458G1</b>, Tuba1a gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCCAGCAGGCATTGCCGATC</p> <p><b>KN318458G2</b>, Tuba1a gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCTCCATCCATGTTGGCC</p> <p><b>KN318458D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <p>Homologous arm and GFP-puro sequences: pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet</p> <pre> TTTGTCTAGC TTGTCGACTA GCCAAAGTAC TGATGGGGTC TGTCTGCAGA AGGGTGTGGC TCCTGGCCTC AGCCGCACTG CAGATGTCAG TGTTGAAATA GAAGTCCCTA TAGTGTGAGA CTCTTTATTA TGTAGCCTAG CCAGAGTACT GATGGGGTCC ACAGAAGGGT GTGGCTGTTG GCCCCAGCCG CACTGCAGAT GTCCATGATG AAATACCAGG TCCTATAGGA TGAAAACCTC ATCCTTACTT ATCGGGTAAA GAAGCAATTA GTATTATTAT GGATAATTAT TTTGTTTTAC AGAATCTATG CTTTAAATAT TTTTCAAATA TGAAAGCTGT TCTATTCAAG CAAGGCTTTG GAAACAATGG GTTTGCACCA TGTCTTAAGC AGTATTAAGG TGACATCTAG GCCACACCCA CTTTTGGTGT TTGTAGTGAG TACTCCTCAT TGTTCTGTT ATTAGGGATG TGAATCCAAA TAAATTTCAA CAATATTTCT ATTTTTAGAA ACACCTTAGA AATCTATTAA GATCTAAAAT AGAAATACAG CTTAATATTA TAACAGCTTA ATTTTATAAT TTTTTCCCT CTTTCCACAG AACATGGCAT CCAGCCTGAT GGCCAGATGC CAAGTGACAA GACCATTGGG GGAGGAGATG ACTCCTTCAA CACCTTCTTC AGTGAGACAG GAGCTGGCAA GCATGTGCCC CGGGCAGTGT TCGTAGACCT GGAACCCACG GTCATCGGTA AGCTGGCTGG GGGCTTCCCC AGGCATTCTT TCTTGGTAC ATACTCAGAA TCTCTCTCCA GACCCAGAAG GGTGAGTGAG CTTGTGTGTG TCCTCGGTGG CCGATGGCTG ACGTCTTCTC CTTTGCAGA TGAAGTTCGC ACCGGCACCT ACCGCCAGCT CTTCCACCCT GAGCAGCTCA TCACAGGCAA GGAGGATGCT GCCAATAACT ATGCTCGTGG CCACTACACC ATTGGCAAGG AGATCATTGA CCTTGTCTG GACAGGATTC GCAAGCTGGT AAATGCCATA TATGGATGGG TTTAAATGC AGTGGGAGGG TGTCTTGTA TCTGTCAGAA TCTGTCAAGT CTTTTCTATC AAGCAAATAT GGCTCCCAAT CTAAGGAAT TGCAAATAGT GCTAAGAGTA TGCCCTCCTA ATAAACATT ACATTTCTT TTCTCCACA </pre> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>



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**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:** [NM\\_011653](#)

**UniProt ID:** [P68369](#)

**Synonyms:** Tuba-1; Tuba1

**Summary:** Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. [UniProtKB/Swiss-Prot Function]

### Product images:

