

Product datasheet for KN213516RB

OriGene Technologies, Inc.

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TBL1 (TBL1X) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD Symbol: TBL1 Locus ID: 6907

Components: KN213516G1, TBL1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN213516G2, TBL1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN213516RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, 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: <u>NM 001139466, NM 001139467, NM 001139468, NM 005647</u>

UniProt ID: <u>060907</u>

Synonyms: EBI; SMAP55; TBL1

Summary: The protein encoded by this gene has sequence similarity with members of the WD40 repeat-

containing protein family. The WD40 group is a large family of proteins, which appear to have

a regulatory function. It is believed that the WD40 repeats mediate protein-protein

interactions and members of the family are involved in signal transduction, RNA processing, gene regulation, vesicular trafficking, cytoskeletal assembly and may play a role in the control of cytotypic differentiation. This encoded protein is found as a subunit in corepressor SMRT

(silencing mediator for retinoid and thyroid receptors) complex along with histone deacetylase 3 protein. This gene is located adjacent to the ocular albinism gene and it is thought to be involved in the pathogenesis of the ocular albinism with late-onset

sensorineural deafness phenotype. Four transcript variants encoding two different isoforms have been found for this gene. This gene is highly similar to the Y chromosome TBL1Y gene.

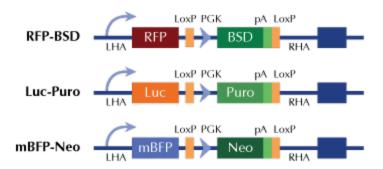
[provided by RefSeq, Nov 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter