

Product datasheet for KN222737LP

OriGene Technologies, Inc.

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ITPR3 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: ITPR3 Locus ID: 3710

Components: KN222737G1, ITPR3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN222737G2, ITPR3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN222737LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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 002224</u>

UniProt ID: Q14573

Synonyms: IP3R; IP3R3

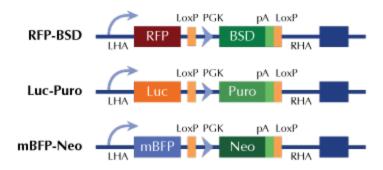
Summary: This gene encodes a receptor for inositol 1,4,5-trisphosphate, a second messenger that

mediates the release of intracellular calcium. The receptor contains a calcium channel at the C-terminus and the ligand-binding site at the N-terminus. Knockout studies in mice suggest that type 2 and type 3 inositol 1,4,5-trisphosphate receptors play a key role in exocrine secretion underlying energy metabolism and growth. [provided by RefSeq, Aug 2010]



Product images:

Donor Vector Edited Chromosome



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