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Product datasheet for KN217718BN

TCF4 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:	TCF4
Locus ID:	6925
Components:	**KN217718G1**, TCF4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN217718G2**, TCF4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN217718BND**, donor DNA containing left and right homologous arms and mBFP-Neo 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:	NM_001083962, NM_001243226, NM_001243227, NM_001243228, NM_001243230, NM_001243231, NM_001243232, NM_001243233, NM_001243234, NM_001243235, NM_001243236, NM_003199, NM_001306207, NM_001306208, NM_001330604, NM_001330605, NM_001348211, NM_001348212, NM_001348213, NM_001348214, NM_001348215, NM_001348216, NM_001348217, NM_001348218, NM_001348219, NM_001348220, NM_001369567, NM_001369571, NM_001369574, NM_001369577, NM_001369579, NM_001369580, NM_001369581, NM_001369585, NM_001369586, NM_001369568, NM_001369569, NM_001369570, NM_001369572, NM_001369573, NM_001369575, NM_001369576, NM_001369578, NM_001369582, NM_001369583, NM_001369584
UniProt ID:	P15884
Synonyms:	bHLHb19; E2-2; ITF-2; ITF2; PTHS; SEF-2; SEF2; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; TCF-4

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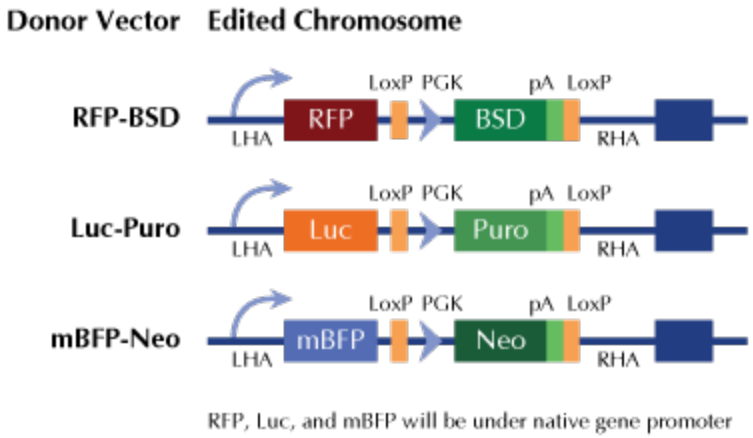
Summary: This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016]

Product images:



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