

Product datasheet for **KN214478**

ITIH5 Human 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:	ITIH5
Locus ID:	80760
Components:	<p>KN214478G1, ITIH5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAACAGTCTGACTTGCCTC</p> <p>KN214478G2, ITIH5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGGCTGGTAGGTATATTCA</p> <p>KN214478D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</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

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CCACTGCCCT CCAACCTGAG CAACACAGCG AGGCCATGTC TAAAAAAGA CGATTTCATC ACTTTCCCGC
ATCCCTCCCC GGCATGTGGA AGCATATAAG AAATCATCCA GAAAAGACAC CATGAAGAAA ATTCAAGATA
AGTTCAGTTT TGCTTCCAGA GTTTCCTGGA GTTTTAAGTT GAATAGTGAG CCCACTGGAA TTAAGACTGA
ATACCTTTAC TTACTGTAAT AGACACAGTA GCAAAGAGTT TAACTTGAGG CCCCAAATAA AATGAAACAG
AATACAAATA CTCTATCTTT TTGTTCTTGT CATTTCATCC ATCTCCTCTT ACAGATAGAA GAATGCTCAG
GCGATGAGAT AGTGTGACAT TATGGGTTAA GAGTCAACCA GATCTGACAG GGATGAATTC TAATTCTGGC
CTCGAAACAA ACTCCCTGAT AAAAAGTCAA AACTGCTTTT CAGGATAGAT ACAGCTTTTG GTGAATCTGA
ATAGATTTTA ACCCCCTTGT ATAACTCATG TGAGAATGAC CTCACAATCA TATTTTCATG CTCTTCTCTT
TAAAAAATCA CCTTTTAAAC AGTCTCTTCT CTTTCTAGG TTCCCTCATT CTTCTATTTA TTTTGAACCA
GGTATCCACT TTGCTTGCAG ATCCTCCAAA ACATATAAAG TTGCTTGTAG AAAAATTCTG AGATGAAACA
GCATAGTTGA GTCTTTTATA AGGCTTCTT TAAGTGGATT TTTTTTTTCT TTTTCTGGA AGGAGACCTG
ATTATTTTCA TAGAACTAAA AACACAAAGG TCTTTCAGG TTTATTTTTT TAAAGCCTA AATATAACTT
TTATTTATTT TTATGACATC CTTACTCAGG AAATGAGAGC TTTGTTGTGA AGTAAACAAC TAAAGCAACC
AAAGAATTGA CATTGTAGA CTAAGCATC ACGTGATGAA AGTTGGATAG GCTCTCAATG CTGCTGGAGG
CTAAGAGATT GGGACCGGG CAAATGTTCA GAAGCTCTAA GAGCTTATTT GAAACTACCT CAGTCTTCC
TTACCACTGT GCATGGAGTG AAATATCAA ATGTAGAGAC ATGCCTTTAG ACTCTGGTGA GGCATTTATC
CTAGCCCTCC CTGCACCTGG CTGGTGTGTTG AGTGGATTCA GATTTCTTGT CATTACCAAT ATCACAATCA
TGACTATCTT

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GE100003, scramble sequence in pCas-Guide vector



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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_001001851](#), [NM_030569](#), [NM_032817](#)

UniProt ID: [Q86UX2](#)

Synonyms: ITI-HC5; PP14776

Summary: This gene encodes a heavy chain component of one of the inter-alpha-trypsin inhibitor (ITI) family members. ITI proteins are involved in extracellular matrix stabilization and in the prevention of tumor metastasis. They are also structurally related plasma serine protease inhibitors and are composed of a light chain and varying numbers of heavy chains. This family member is thought to function as a tumor suppressor in breast and thyroid cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]

Product images:

