

Product datasheet for **KN201664**

TCTP (TPT1) 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:	TCTP
Locus ID:	7178
Components:	<p>KN201664G1, TCTP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATCCTTACTGCCGCACACGG</p> <p>KN201664G2, TCTP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACCCCGTGTGCGGCAGTA</p> <p>KN201664D, 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**

```
GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGTAGCAA
TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
CTGGATGGAG GCGGATAAAG TTGCAGGACC ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG GTTTATTGCT
GATAAATCTG GAGCCGGTGA GCGTGGTTCT CGCGGTATCA TTGCAGCACT GGGGCCAGAT GGTAAGCCCT
CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAGGCAAC TATGGATGAA CGAAATAGAC AGATCGCTGA
GATAGGTGCC TCACTGATTA AGCATTGGTA ACTGTCAGAC CAAGTTTACT CATATATACT TTAGATTGAT
TTAAAACCTC ATTTTAAATT TAAAAGGATC TAGGTGAAGA TCCTTTTTGA TAATCTCATG ACCAAAATCC
CTTAACGTGA GTTTTCGTTC CACTGAGCGT CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC
TTTTTTCTG CGCGTAATCT GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG
GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAAGTGGCT TCAGCAGAGC GCAGATACCA AATACTGTTC
TTCTAGTGTA GCCGTAGTTA GGCCACCACT TCAAGAAGCT TGTAGCACCG CCTACATACC TCGCTCTGCT
AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG GGTGGACTC AAGACGATAG
TTACCGGATA AGGCGCAGCG GTCGGGCTGA ACGGGGGGTT CGTGACACACA GCCCAGCTTG GAGCGAACGA
CCTACACCGA ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTTCCGGAAG GGAGAAAGGC
GGACAGGTAT CCGGTAAGCG GCAGGGTCCG AACAGGAGAG CGCACGAGGG AGCTTCCAGG GGGAAACGCC
TGGTATCTTT ATAGTCCTGT CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTTGTGA TGCTCGTCAG
GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACGCGGCCTT TTTACGGTTC CTGGCCTTTT GCTGGCCTTT
TGCTCACATG TTCTTTCCTG CGTTATCCCC TGATTCTGTG GATAACCGTA TTACCGCCTT TGAGTGAGCT
GATACCGCTC GCCGCAGCCG AACGACCGAG CGCAGCGAGT CAGTGAGCGA GGAAGCGGAA GAGCGCCCAA
TACGCAAACC GCCTCTCCCC GCGCGTTGGC CGATTTCATTA ATGCAGCTGG CACGACAGGT TTCCCAGCTG
GAAAGCGGGC AGTGAGCGCA ACGCAATTAA TGTGAGTTAG CTCACTCATT AGGCACCCCA GGCTTTACAC
TTTATGCTTC CGGCTCGTAT GTTGTTGGA ATTGTGAGCG GATAACAATT TCACACAGGA AACAGCTATG
ACCATGATTA CGCCAAGCTC CTTCTCTTTC CAGCCCTTCC TCTTCTACTG ACTGACTGAC TGGAAGACAC
```



[View online »](#)

ACCTCAGAGG GCCTGACCCT CCCTAAATGC GACGTTCTCC TACCTTGGTT GATACTCAGC TTCCCAGAAA
 AGGGTGGAACTAGGCTGGA CGAGGCGCAG GGCCAAAGTT TAATTCCTCT AAGCTCCACC CAGCTCCCAG
 CACCTCTCCA GGCGGCCCG TGGGGTAGGG CGGAGCCGGG TCCAACGTAC TCCGCTTCCC CCGCTCCACC
 CACCCAGGGC TAGGGAGCGC CCCGAGAGTT GGCCTCTCC CACGCTGCGC GCGCACTCC CCGCCCCAC
 CCCTACCCGC TGGCGTGCC AGTGAACGG AGCCTTGTGT CTCCGCCTCA AGTCCCCGGA TGCTCACCTC
 CCCGACTCGC CCCCGTGTG GCCCGCCCC CGCGCGGCTC TTCGTGCCAC GTCACCGCTC GCGTCGCTC
 CGGAGCGCA CGGGCGATG ACGTAGAGGG ACGTGCCCTC TATATGAGGT TGGGGAGCGG CTGAGTCGGC
 CTTTTCCGCC CGCTCCCCC TCCCCCGAG CGCCGCTCCG GCTGCACCGC GCTCGCTCCG AGTTTCAGGC
 TCGTGCTAAG CTAGCGCCGT CGTCGTCTCC CTTCAGTCGC CATCACTAGC ATGGAGAGCG ACGAGAGCGG
 CCTGCCCGCC ATGGAGATCG AGTGCCGCAT CACCGGCACC CTGAACGGCG TGGAGTTCGA GCTGGTGGGC
 GCGGAGAGG GCACCCCGA GCAGGGCCGC ATGACCAACA AGATGAAGAG CACCAAAGGC GCCCTGACCT
 TCAGCCCTA CTGCTGAGC CACGTGATGG GCTACGGCTT CTACCACTTC GGCACCTACC CCAGCGGCTA
 CGAGAACCC TTCCTGCACG CCATCAACAA CGGCGGCTAC ACCAACACCC GCATCGAGAA GTACGAGGAC
 GGGCGGTGC TGCACGTGAG CTTGAGCTAC CGCTACGAGG CCGGCCGCGT GATCGGCGAC TTCAAGGTGA
 TGGGACCGG CTCCCCGAG GACAGCGTGA TCTTCACCGA CAAGATCATC CGCAGCAACG CCACCGTGGG
 GCACCTGCAC CCCATGGGCG ATAACGATCT GGATGGCAGC TTCACCCGCA CCTTCAGCCT GCGCGACGGC
 GGCTACTACA GCTCCGTGGT GGACAGCCAC ATGCACTTCA AGAGCGCCAT CCACCCAGC ATCCTGCAGA
 ACGGGGGCC CATGTTCCGC TTCGCGCGG TGGAGGAGGA TCACAGCAAC ACCGAGCTGG GCATCGTGGA
 GTACCAGCAC GCCTTCAAGA CCCCGGATGC AGATGCCGTG GAAGAAAGAG TTTAAGAATT CCGATCATAT
 TCAATAACCC TTAATATAAC TTCGTATAAT GTATGCTATA CGAAGTTATT AGGTCTGAAG AGGAGTTTAC
 GTCCAGCAA GCTTAGGATC TCGACCTCGA AATTCTACCG GGTAGGGGAG GCGCTTTTCC CAAGGCAGTC
 TGGAGCATGC GCTTAGCAG CCCCGCTGG CACTTGGCGC TACACAAGTG GCCTCTGGC TCGCACACAT
 TCCACATCA CCGTAGGCG CCAACCGACT CGGTTCTTTG GTGGCCCTT GCGCCACCT TCTACTCTC
 CCCTAGTCAG GAAGTTCGCC CCGCCCCGC AGCTCGGTC GTGCAGGACG TGACAAATGG AAGTAGCACG
 TCTCACTAGT CTCGTGCAGA TGGACAGCAC CGCTGAGCAA TGGAAAGCGG TAGGCCTTTG GGGCAGCGG
 CAATAGCAGC TTTGCTCCTT CGCTTTCTGG GCTCAGAGG TGGGAAGGGG TGGTCCGGG GCGGGCTCA
 GGGGCGGGT CAGGGGCGGG GCGGGCGCC GAAGTCTC CGGAGGCCG GCATTCTGA CGCTTCAAAA
 GCGCAGTCT GCCGCGTGT TCTCCTTTC CTCATCTCCG GGCCTTTCGA CCTGCATCCA TCTAGATCTC
 GAGCAGTGA AGCTTACCAT GACCGAGTAC AAGCCCACGG TGGCCTCGC CACCCGCGAC GACGTCCCA
 GGGCCGTACG CACCCTCGC GCCGCTTCC CCGACTACC CGCCACGCG CACACCGTCG ATCCGGACCG
 CCACATCGAG CGGGTACCG AGCTGCAAGA ACTTCTCTC ACGCGCTCG GGCTCGACAT CGGCAAGGTG
 TGGTTCGGG ACGACGGCG CCGGTGGCG GTCTGGACCA CGCCGGAGAG CGTCGAAGCG GGGCGGTGT
 TCGCCGAGAT CGGCCGCGC ATGGCCGAGT TGAGCGTTC CCGGCTGGC GCGCAGCAAC AGATGGAAGG
 CCTCTGGCG CGCACCGGC CCAAGGAGCC CGCGTGTTT CTGGCCACC TCGGCGTCTC GCCCGACCAC
 CAGGGCAAGG GTCTGGGCG CGCCGTCTGT CTCCCCGGG TGGAGGCGG CGAGCGCGC GGGGTGCCG
 CCTTCTGGA GACCTCCGC CCCACAACC TCCCCTTCTA CGAGCGGCTC GGCTTACC GTCACCCCGA
 CGTCGAGGTG CCCGAAGGAC CGCGCACCTG GTGCATGACC CGCAAGCCG GTGCCTGACG CCCGCCAC
 GACCCGACG GCCCGACCGA AAGGAGCGCA CGACCCATG CATCGATGAT ATCAGATCCC CGGGATGCAG
 AAATTGATGA TCTATTAAC AATAAAGATG TCCACTAAA TGGAAATTTT TCCTGTCATA CTTTGTAAAG
 AAGGGTGAGA ACAGAGTACC TACATTTTGA ATGGAAGGAT TGGAGTACG GGGGTGGGG TGGGTGGGA
 TTAGATAAAT GCCTGCTCT TACTGAAGGC TCTTACTAT TGCTTTATGA TAATGTTTCA TAGTTGATA
 TCATAATTTA AACAAGCAA ACCAAATTAA GGGCCAGCTC ATTCCTCCA CTCATGATCT ATAGATCTAT
 AGATCTCTCG TGGATCATT GTTTTTCTCT TGATTCCAC TTTGTGGTTC TAAGTACTGT GGTTCAAA
 TGTGTCAGTT TCATAGCCTG AAGAACGAGA TCAGCAGCCT CTGTTCCACA TACACTTCAT TCTCAGTATT
 GTTTTGCAA GTTCTAATC CATCAGAAGC TGGTCGAGAT CCGGAACCCT TAATATAACT TCGTATAATG
 TATGCTATAC GAAGTTATTA GGTCCCTCGA AGAGTTTAC TAGGCGCGC CGGAGGGGTC GGTGCCGGG
 GCTCGCGCC AGCTCTGGT TGCTACGGAG GGCAGATCC CGCGTGGC CGCCGGCGG GAAATGCGG
 GAAATGGCG CGCCAGGCG ACGGTGATGG GCGGCTCTGT GTATCCGCA GACGATGAGA GTTCTCCGA
 CATCTACAAG ATCCGGGAGA TCGCGGACGG GTTGTGCTG GAGGTGGAG GGAAGGTGAG TCGGTCGGG
 CTGCGCTGG GGGAGTCCG GCCGAGCGG CTCGGGTTT CTCCGCTCC CCGCTGAGG TTGTGCAATC
 CTCCCCCGC CTCTGCGG GAGGAGACGC TCTTCCGGG CTTGGGTTT TCTAGAAAAC TGGAGGCGGA
 GCTGATCTG GAAATAGGC CGCCGCTCG GCGCCATCC TCCTCCGGG GTTGTCCGG ACATGATGT

TCCGGCTTAG GAGCCTGGAG TCCTTTCGTG TTTGTCCTGT CCCCACTTAC CAACCGGAGG CATCACATGC
 CCGCAACTGG AAACAAC TTTAATGACCC CATT TTTTGT TCCGGCCAAC AGACAAC TCT TTTAAGTTAG
 GTCGTTTTGA GAAATCCAGC ACGACAGTCT TCACTGACTG ACTGACTGGA AAGTCCTCTC CACTGACTGT
 AGCCTCCAAT TCACTGGCCG TCGTTTTACA ACGTCGTGAC TGGGAAAACC CTGGCGTTAC CCAACTTAAT
 CGCCTTGACAG CACATCCCC TTTCCGCCAGC TGGCGTAATA GCGAAGAGGC CCGCACCGAT CGCCCTTCCC
 AACAGTTGCG CAGCCTGAAT GCGGAATGGC GCCTGATGCG GTATTTTCTC CTTACGCATC TGTGCGGTAT
 TTCACACCGC ATACGTCAA GCAACCATAG TACGCGCCCT GTAGCGGCGC ATTAAGCGCG GCGGGTGTGG
 TGGTTACGCG CAGCGTGACC GCTACACTTG CCAGCGCCCT AGCGCCCGCT CCTTTCGCTT TCTTCCCTTC
 CTTTCTCGCC ACGTTCGCG GCTTTCGCCG TCAAGCTCTA AATCGGGGGC TCCCTTTAGG GTTCCGATTT
 AGTGCTTTAC GGCACCTCGA CCCCAAAAAA CTTGATTTGG GTGATGGTTC ACGTAGTGGG CCATCGCCCT
 GATAGACGGT TTTTCGCCCT TTGACGTTGG AGTCCACGTT CTTAATAGT GGACTCTTGT TCCAACTGG
 AACAACTC AACCTATCT CGGGCTATTC TTTTGATTTA TAAGGGATTT TGCCGATTTT GGCCTATTGG
 TTAATAATG AGCTGATTTA AAAAAATTT AACGCGAATT TTAACAAAAT ATTAACGTTT ACAATTTTAT
 GGTGCACTCT CAGTACAATC TGCTCTGATG CCGCATAGTT AAGCCAGCCC CGACACCCGC CAACACCCGC
 TGACGCGCCC TGACGGGCTT GTCTGCTCCC GGCATCCGCT TACAGACAAG CTGTGACCGT CAACGGGAGC
 TGATGTGTC AGAGTTTTTC ACCGTCATCA CCGAAACGCG CGACCCGAAA GGGCCTCGTG ATACGCCTAT
 TTTTATAGGT TAATGTCATG ATAATAATGG TTTCTTAGAC GTCAGGTGGC ACTTTTCGGG GAAATGTGCG
 CGGAACCCCT ATTTGTTTAT TTTTCTAAT ACATTCAAAT ATGTATCCGC TCATGAGACA ATAACCCTGA
 TAAATGCTTC AATAATATTG AAAAAGGAAG AGTATGAGTA TTCAACATTT CCGTGTCCGC CTTATTCCTT
 TTTTTCGGC ATTTTGCCTT CCTGTTTTTG CTCACCCAGA AACGCTGGTG AAAGTAAAG ATGCTGAAGA
 TCAGTTGGGT GCACGAGTGG GTTACATCGA ACTGGATCTC AACAGCGGTA AGATCCTTGA GAGTTTTTCG
 CCCGAAGAAC GTTTTCCAAT GATGAGCACT TTTAAAGTTC TGCTATGTGG CGCGGTATTA TCCCGTATTG
 ACGCCGGGCA AGAGCAACTC GGTCGCCGCA TACACTATTC TCAGAATGAC TTGTTGAGT ACTCACCAGT
 CACAGAAAAG CATCTTACGG ATGGCATGAC AGTAAGAGAA TTATGCAGTG CTGCCATAAC CATGAGTGAT
 AACACTGCGG CCAACTTACT TCTGACAACG ATCGGAGGAC CGAAGGAGCT AACCGCTTTT TTGCACAACA
 TGGGGGATCA TGTAACCTCG CTT

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_001286272](#), [NM_001286273](#), [NM_003295](#)

UniProt ID:

[P13693](#)

Synonyms:

HRF; p02; p23; TCTP

Summary:

This gene encodes a protein that is a regulator of cellular growth and proliferation. Its mRNA is highly structured and contains an oligopyrimidine tract (5'-TOP) in its 5' untranslated region that functions to repress its translation under quiescent conditions. The encoded protein is involved in a variety of cellular pathways, including apoptosis, protein synthesis and cell division. It binds to and stabilizes microtubules, and removal of this protein through phosphorylation is required for progression through mitotic and meiotic cell divisions. This gene is known to play a role in carcinogenesis, and is upregulated in some cancer cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2017]

Product images:

