

## Product datasheet for **KN400322**

### TSC22 domain family, member 4 (TSC22D4) Human Gene Knockout Kit (CRISPR)

#### Product data:

|               |                                |
|---------------|--------------------------------|
| Product Type: | Knockout Kits (CRISPR)         |
| Format:       | 2 gRNA vectors, 1 linear donor |
| Donor DNA:    | EF1a-GFP-P2A-Puro              |
| Symbol:       | TSC22 domain family, member 4  |
| Locus ID:     | 81628                          |



Components:

**KN400322G1**, TSC22 domain family, member 4 gRNA vector 1 in pCas-Guide CRISPR vector (GEI00002)

**KN400322G2**, TSC22 domain family, member 4 gRNA vector 2 in pCas-Guide CRISPR vector (GEI00002)

**KN400322D**, Linear donor DNA containing LoxP-EF1a-tGFP-P2A-Puro-LoxP:

The sequence below is cassette sequence only. The linear donor DNA also contains proprietary target sequence.

LoxP-EF1a-tGFP-P2A-Puro-LoxP (2739 bp)

ATAACTTCGT ATAATGTATG CTATACGAAG TTATCGTGAG GCTCCGGTGC CCGTCAGTGG GCAGAGCGCA CATCGCCCAC  
AGTCCCGCAG AAGTTGGGGG GAGGGGTCGG CAATTGAACC GGTGCCTAGA GAAGGTGGCG CGGGGTAAC TGGGAAAGTG  
ATGTCGTGTA CTGGCTCCGC CTTTTCCCG AGGGTGGGG AGAACCGTAT ATAAGTGCAG TAGTCGCCGT GAACGTTCTT  
TTTCGCAACG GGTTCGCCG CAGAACACAG GTAAGTGCCG TGTGTGGTTC CCGCGGGCCT GGCCTCTTTA CGGGTTATGG  
CCCTTGCGTG CCTTGAATTA CTTCCACCTG GCTGCAGTAC GTGATTCTTG ATCCCGAGCT TCGGGTTGGA AGTGGGTGGG  
AGAGTTCGAG GCCTTGCGCT TAAGGAGCCC CTTGCGCTCG TGCTTGAGTT GAGGCTGGC CTGGGCGCTG GGGCCGCCG  
GTGCGAATCT GGTGGCACCT TCGCGCCTGT CTCGCTGCTT TCGATAAGTC TTAGCCATT TAAATTTTTT GATGACCTGC  
TGCGACGCTT TTTTCTGGC AAGATAGTCT TGTAATGCG GGCCAAGATC TGCACACTGG TATTTCCGTT TTTGGGGCCG  
CGGGCGGCGA CGGGGCCCGT GCGTCCCAGC GCACATGTTT GGCGAGGCGG GGCTGCGAG CGCGGCCACC GAGAATCGGA  
CGGGGGTAGT CTAAGCTGG CCGGCTGCT CTGGTGCTG GCCTCGCGCC GCCGTGTATC GCGCCGCCCT GGGCGGCAAG  
GCTGGCCCGG TCGGCACCAG TTGCGTGAGC GGAAGATGG CCGCTTCCCG GCCCTGCTGC AGGGAGCTCA AAATGGAGGA  
CGCGGCGCTC GGGAGAGCGG GCGGGTGAGT CACCCACACA AAGGAAAAGG GCCTTTCCGT CCTCAGCCGT CGCTTCATGT  
GACTCCACGG AGTACCGGGC GCCGTCCAGG CACCTCGATT AGTTCTCGAG CTTTTGGAGT ACCTGCTCTT TAGGTTGGGG  
GGAGGGGTTT TATGCGATGG AGTTTCCCA CACTGAGTGG GTGGAGACTG AAGTTAGGCC AGCTTGACAT TTGATGTAAT  
TCTCCTTGA ATTTGCCCTT TTTGAGTTG GATCTTGTT CATTCTAAG CCTCAGACAG TGGTTCAAAG TTTTTTCTT  
CCATTTCAAG TGTGCGTAAT GGAGAGCGAC GAGAGCGGCC TGCCCGCCAT GGAGATCGAG TGCCGCATCA CCGGACCCCT  
GAACGCGCTG GAGTTCGAGC TGGTGGGCGG CGGAGAGGGC ACCCCGAGC AGGGCCGCAT GACCAACAAG ATGAAGAGCA  
CCAAAGGCGC CCGTACCTTC AGCCCTACC TGCTGAGCCA CGTGATGGG TACGGCTTCT ACCACTTCGG CACTACCCC  
AGCGGTACG AGAACCCTT CCGCACGCC ATCAACAACG GCGGTACAC CAACACCCG ATCGAGAAGT ACGAGGACGG  
CGGCGTGCTG CACGTGAGCT TCAGCTACCG CTACGAGGCC GGCCGCGTGA TCGGCGACTT CAAGGTGATG GGCACCGGCT  
TCCCCGAGGA CAGCGTGATC TTCACCGACA AGATCATCCG CAGCAACGCC ACCGTGGAGC ACCTGCACCC CATGGGCGAT  
AACGATCTGG ATGGCAGCTT CACCCGACC TTCAGCCTGC GCGACGGCG CTACTACAGC TCCGTGGTGG ACAGCCACAT  
GCACTTCAAG AGCGCCATCC ACCCCAGCAT CCGTGCAGAC GGGGGCCCCA TGTTGCGCTT CCGCCGCGTG GAGGAGGATC  
ACAGCAACAC CGAGCTGGG ATCGTGAGT ACCAGCACGC CTTCAGACC CCGATGCGAG ATGCCGGTGA AGAAAGAGGA  
AGCGGAGCTA CTAACCTCAG CCTGCTGAAG CAGGCTGGAG ACGTGGAGGA GAACCCCTGGA CCTATGACCG AGTACAAGCC  
CACGGTGCGC CTCGCCACCC GCGACGAGT CCGCAGGGC GTACGCACCC TCGCCGCCG GTTCGCCGAC TACCCGCCA  
CGCGCCACAC CGTCGATCCG GACCGCCACA TCGAGCGGT CACCGAGCTG CAAGAACTCT TCCTCACGCG CGTCGGGCTC  
GACATCGGCA AGGTGTGGT CGCGGACGAC GCGCGCGCG TGGCGGTCTG GACACGCCG GAGAGCGTCG AAGCGGGGCG  
GGTGTTCGCC GAGATCGGCC CGCGCATGGC CGAGTTGAGC GGTTCGCCG TGCCCGCGCA GCAACAGATG GAAGGCTTCC  
TGGCGCCGCA CCGGCCAAG GAGCCGCGT GGTTCCTGCG CACCGTCGGC GTCTCGCCG ACCACAGGG CAAGGGTCTG  
GGCAGCGCCG TCGTGCTCCC CGGAGTGGAG GCGGCCGAGC GCGCCGGGT GCCCGCTTC CTGGAGACCT CCGCGCCCCG  
CAACCTCCCC TTCTACGAGC GGCTCGGCTT CACCGTCACC GCGCAGCTCG AGGTGCCGA AGGACCGCGC ACCTGGTGCA  
TGACCCGCAA GCCCGGTGCC TGAACCTTGT TTATTGCAGC TTATAATGGT TACAAATAAA GCAATAGCAT CACAAATTC  
ACAAATAAAG CATTTTTTTC ACTGCATTCT AGTTGTGGT TGTCCAACT CATCAATGTA TCTTAATAAC TTCGTATAAT  
GTATGCTATA CGAAGTTAT



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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b> | 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. |
| <b>RefSeq:</b>         | <a href="#">NM_001303043</a> , <a href="#">NM_030935</a> , <a href="#">NR_130118</a> , <a href="#">NR_130119</a>                                                                                                                                                                                                                                                                      |
| <b>UniProt ID:</b>     | <a href="#">Q9Y3Q8</a>                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms:</b>       | THG-1; THG1; TILZ2                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Summary:</b>        | TSC22D4 is a member of the TSC22 domain family of leucine zipper transcriptional regulators (see TSC22D3; MIM 300506) (Kester et al., 1999 [PubMed 10488076]; Fiorenza et al., 2001 [PubMed 11707329]).[supplied by OMIM, Mar 2008]                                                                                                                                                   |

### Product images:

