

Product datasheet for **RG206018**

TPTE (NM_199259) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPTE (NM_199259) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TPTE
Synonyms:	CT44; PTEN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206018 representing NM_199259
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATGAAAGTCTGATCCGACTGACCTGGCGGGAGTCATCATTGAGCTCGGCCCAATGACAGTCCAC
 AGACAAGTGAATTTAAAGGAGCAACCGAGGAGGCACCTGCGAAAGAAAGTGTGTTAGCACGACTTCCAA
 GTTTGAAGTTGAAGATGCTGAAAATGTTGCTTCATATGACAGCAAGATTAAGAAAATTGTCATTCAATT
 GTATCATCCTTTGCATTTGGACTATTTGGAGTTTTCTGGTCTTACTGGATGTCACTCTCATCCTTGCCG
 ACCTAATTTTCACTGACAGCAAACCTTTATTCCTTTGGAGTATCGTTCTATTTCTAGCTATTGCCTT
 ATTTTTTCTCATGGATGTTCTTCTCGAGTATTTGTAGAAAGGAGACAGCAGTATTTTTCTGACTTATTT
 AACATTTTAGATACTGCCATTATTGTGATTCTTCTGCTGGTTGATGTCGTTTACATTTTTTTGACATTA
 AGTTGCTTAGGAATATCCAGATGGACACATTTACTTCGACTTCTACGACTTATTATTCTGTTAAGAA
 TTTTCATCTGTTTCATCAAAAAGACAACCTGAAAAGCTGATAAGAAGGCGGGTTTCAGAAAACAAAAGG
 CGATACACAAGGGATGGATTTGACCTAGACCTCACTTACGTTACAGAACGTATTATTGCTATGTCATTTT
 CATCTTCTGGAAGGCAGTCTTTCTATAGAAATCCAATCAAGGAAGTTGTGCGGTTTCTAGATAAGAAACA
 CCGAAACCACTATCGAGTCTACAATCTATGCAAGTAAAAGAGCTTACGATCCTAAGCACTTCCATAATAGG
 GTCGTTAGAATCATGATTGATGATCATAATGTCCCACTCTACATCAGATGGTGGTTTTCCACCAAGGAAG
 TAAATGAGTGGATGGCTCAAGATCTTGAACATCGTAGCGATTCAGTAAAGGAGGCACAGATAGAAC
 AGGAACTATGTTTGTGCCTTCTTATTGCCTCTGAAATATGTTCAACTGCAAAGGAAAGCCTGTATTAT
 TTTGGAAAAGGCGAACAGATAAAACCCACAGCGAAAAATTTAGGGAGTAGAACTCCTTCTCAGAAGA
 GATATGTTGCATATTTTGACAAGTGAACATCTCAACTGGAATCTCCCTCCAAGACGGATACCTCTT
 TATAAAACACTTCATTATTTATTCGATTCTCGTTATGTACGTGATCTAAAAATCCAATAGAAAATGGAG
 AAAAAGTTGTCTTTTCCACTATTTTATTAGAAAATGTTGCGTACTTGATAACATTACAACAGACAAAA
 TATTAATTGATGATTCGACGGTCCACCTCTGATGATGATGTAAGTGCAGTTTTTCTATTGCAATCT
 TCCTACATACTATGACAATTGCTCATTTTACTTCTGGTTCACACATCTTTTATTGAAAATAACAGGCTT
 TATCTACAAAAAATGAATTGGATAATCTACATAAAACAAAAGCAGGAGAAATTTATCCATCAGATTTTG
 CCGTGGAGATACTTTTGGCGAGAAAATGACTTCCAGTATGTTGTAGCTGGATCCGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206018 representing NM_199259
 Red=Cloning site Green=Tags(s)

MNESPDPTDLAGVIIELGPNDSPQTSEFKGATEEAPAKESVLRARL SKFEVEDAENVASYDSKIKKIVHSI
 VSSFAGFLFGVFLVLLDVTLLADLIFTDSKLYIPLEYRSISLAIALFFLMDVLLRVFVERRRQYFSDLF
 NILDTAIIIVILLLVVVYIFFDIKLLRNIPRWTHLLRLLRLIILLRIFHLFHQKRQLEKLI RRRVSENKR
 RYTRDGFDDLTYVTERIIAMSPSSGRQSFYRNP I KEVVRF LDKKRNHYRVYNLC SERAYDPKHFHNR
 VVRIMIDDHNVPTLHQMVVFTKEVNEWMAQDLENIVA I HCKGGTDRGTGMVCAFLIASEICSTAKESLYY
 FGERRTDKTHSEKFQGVETPSQKRYVAYFAQVKHLYNWNLP PRRILFIKHFI IYSIPRYVRLKIQIEME
 KKVVVSTISLGKCSVLDNITTDKILIDVFDGPPLYDDVKVQFFYSNLPTYDNC SFYFWLHTSFIENNRL
 YLPKNELDNLHKQKARRIYPSDFAVEILFGEKMTSSDVVAGSD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_199259

ORF Size: 1599 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

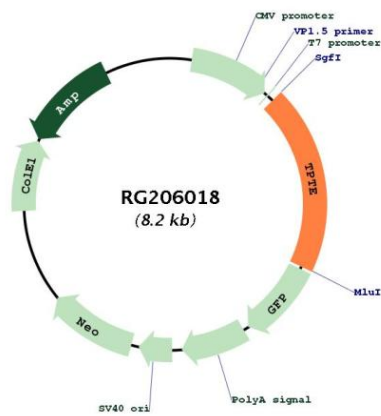
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_199259.2](#), [NP_954868.1](#)

RefSeq Size:	2145 bp
RefSeq ORF:	1602 bp
Locus ID:	7179
UniProt ID:	P56180
Cytogenetics:	21p11.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a PTEN-related tyrosine phosphatase which may play a role in the signal transduction pathways of the endocrine or spermatogenic function of the testis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RG206018