

Product datasheet for **RG223844**

TPTE (NM_199261) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPTE (NM_199261) 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:

>RG223844 representing NM_199261
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATGAAAGTCTGATCCGACTGACCTGGCGGGAGTCACTATTGAGCTCGGCCCAATGACAGTCCAC
 AGACAAGTGAATTTAAAGGAGCAACCGAGGAGCACCTGCGAAAAGAAAGCCACACACAAGTGAATTTAA
 AGGAGCAGCCCGGTGTACCTATCAGTAAAAGTGTGTTAGCACGACTTTCCAAGTTGAAGTTGAAGT
 GCTGAAAATGTTGCTTATATGACAGCAAGATTAAGAAAATTGTGCACTCAATTGTATCATCCTTTGCAT
 TTGGACTATTTGGAGTTTTCTGGTCTTACTGGATGTCCTCTCATCCTTGCCGACCTAATTTTCACTGA
 CAGCAAATTTATATTCCTTTGGAGTATCGTCTATTTCTCTAGCTATTGCCTATTTTTTCTCATGGAT
 GTTCTTCTCGAGTATTGTAGAAAGGAGACAGCAGTATTTTTCTGACTATTTAACATTTTAGATACTG
 CCATTATTGTGATTCTTCTGCTGGTTGATGTCGTTTACATTTTTTTGACATTAAGTTGCTTAGGAATAT
 TCCAGATGGACACATTTACTTCGACTTCTACGACTTATTATTCTGTTAAGAATTTTTCATCTGTTTCAT
 CAAAAAGACAACCTTGAAAAGCTGATAAGAAGGCGGGTTTCAGAAAACAAAAGGCGATACACAAGGGATG
 GATTTGACCTAGACCTCACTTACGTTACAGAACGTATTATTGCTATGTCATTTCCATCTTCTGGAAGGCA
 GTCTTTCTATAGAAAATCCAATCAAGGAAGTTGTGCGGTTTCTAGATAAGAAAACCCGAAACCACTATCGA
 GTCTACAATCTATGCAGTGAAGAGCTTACGATCCTAAGCACTCCATAATAGGGTCGTTAGAATCATGA
 TTGATGATCATAATGTCCCACTCTACATCAGATGGTGGTTTTCCCAAGGAAGTAAATGAGTGGATGGC
 TCAAGTCTTGAAAACATCGTAGCGATTCACTGTAAGGAGGCACAGATAGAACAGGAATATGGTTTGT
 GCCTTCTTATTGCCTCTGAAAATATGTTCAACTGCAAAGGAAAGCCTGTATTATTTGGAGAAAGCGGAA
 CAAAAAACCCACAGCGAAAAATTTCAAGGAGTAGAAACTCCTTCTCAGAAGAGATATGTTGCATATTT
 TGCACAAGTGAACATCTCTACAACCTGGAATCTCCCTCCAAGACGATACTCTTTATAAAACACTTCATT
 ATTTATTCGATTCCTCGTTATGTACGTGATCTAAAAATCCAATAGAAATGGAGAAAAAGTTGTCTTTT
 CCACTATTTTATTAGGAAAATGTTGCGTACTTGATAACATTACAACAGACAAAATATTAATTGATGTATT
 CGACGGTCTACCTCTGTATGATGATGTGAAAGTGCAGTTTTTCTATTGAAATCTTCTACATACTATGAC
 AATTGCTCATTTACTTCTGGTTGCACACATCTTTTATTGAAAATAACAGGCTTTATCTACCAAAAAATG
 AATTGGATAATCTACATAAAACAAAAGCACGGAGAATTTATCCATCAGATTTTCCGCTGGAGATACTTTT
 TGCGGAGAAAATGACTTCCAGTGTGTTGTAGCTGGATCCGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence:

>RG223844 representing NM_199261
 Red=Cloning site Green=Tags(s)

MNESPDPTDLAGVIIELGPNDSPQTSEFKGATEEAPAKESPHTSEFKGAARVSPISSEVLARLSKFEVED
 AENVASYDSKIKKIVHSIVSSFAFLFGVFLVLLDVTLILADLIFTDSKLYIPLYRSISLAIALFFLMD
 VLLRVFVERRQYFSDLFNILDTAIIIVILLVVDVYIFFDIKLLRNIPRWHLLRLLRLIILLRIFHLFH
 QKRQLEKLIRRRVSENKRRYTRDGFDLDTYVTERIIAMSFSSGRQSFYRNPIKEVVRFLDKHRNHRY
 VYNLCSERAYDPKHFHNRVVRIMIDHNVPTLHQMVVFTKEVNEWMAQDLENIVAIIHCKGGTDRGTGMVC
 AFLIASEICSTAKESLYYFGERRTDKTHSEKFQGVETPSQKRYVAYFAQVKHLYNWNLP RRILFIKHF I
 IYSIPRYVRDLKIQIEMEKKVVFSTISLGKCSVLDNITTDKILIDVFDGLPLYDDVKVQFFYSNLPTYD
 NCSFYFWLHTSF IENNRLYL PKNELDNLHKQKARRIYPSDFAVEILFGEKMTSSDVVAGSD

TRTRPLE – GFP Tag – **V**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_199261

ORF Size: 1653 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](#)

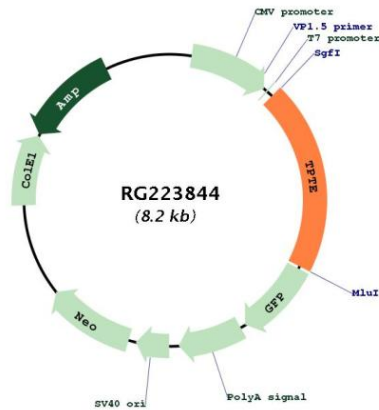
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_199261.3, NP_954870.2
RefSeq Size:	2199 bp
RefSeq ORF:	1656 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 RG223844