

## Product datasheet for **RG238074**

### TPTE (NM\_001290224) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TPTE (NM_001290224) 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)
ORF Nucleotide Sequence:	>RG238074 representing NM_001290224. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGATGTTCTTCTCGAGTATTTGTAGAAAGGAGACAGCAGTATTTTTCTGACTATTTAACATTTTA
GATACTGCCATTATTGTGATTCTCTGCTGGTTGATGTCGTTTACATTTTTTTGACATTAAGTTGCTT
AGGAATATTTCCAGATGGACACATTTACTTCGACTTCTACGACTTATTATTCTGTTAAGAATTTTTCAT
CTGTTTCATCAAAAAGACAACCTGAAAAGCTGATAAGAAGGCGGGTTTCAGAAAACAAAAGCGGATAC
ACAAGGGATGGATTTGACCTAGACCTCACTTACGTTACAGAACGTATTATTGCTATGTCATTTCCATCT
TCTGGAAGGCAGTCTTTCTATAGAAATCCAATCAAGGAAGTTGTGCGGTTTCTAGATAAGAAACACCGA
AACCACTATCGAGTCTACAATCTATGCAGTGAAAGAGCTTACGATCCTAAGCACTCCATAATAGGGTC
GTTAGAATCATGATTGATGATCATAATGTCCCACTCTACATCAGATGGTGGTTTTACCAAGGAAGTA
AATGAGTGGATGGCTCAAGATCTTGAAAACATCGTAGCGATTCACTGTAAGGAGGCACAGATAGAACA
GGAACATAGGTTTGTGCCTTCTTATTGGCTCTGAAATATGTTCAACTGCAAAGGAAAGCCTGTATTAT
TTTGAGAAAGGCGAACAGATAAAACCCACAGCGAAAAATTTTCAGGGAGTAGAACTCCTTCTCAGAAG
AGATATGTTGCATATTTGCACAAGTGAACATCTCTACAACCTGGAATCTCCCTCCAAGACGGATACTC
TTTATAAAACACTTCATTATTTATTCGATTCTCGTTATGTACGTGATCTAAAAATCCAATAGAAATG
GAGAAAAAGGTTGTCTTTCCACTATTTTCAATAGGAAAATGTTCCGGTACTTGATAACATTACAACAGAC
AAAATATTAATTGATGTATTTCGACGGTCTACCTCTGTATGATGATGTGAAAGTGCAGTTTTTCTATTTCG
AATCTTCTACATACTATGACAATTGCTCATTTTACTTCTGGTTGCACACATCTTTTATTGAAAATAAC
AGGCTTTATCTACAAAAAATGAATTGGATAATCTACATAAAACAAAAGCACGGAGAATTTATCCATCA
GATTTTCCCGTGGAGATACTTTTGGCGAGAAAATGACTTCCAGTGATGTTGTAGCTGGATCCGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



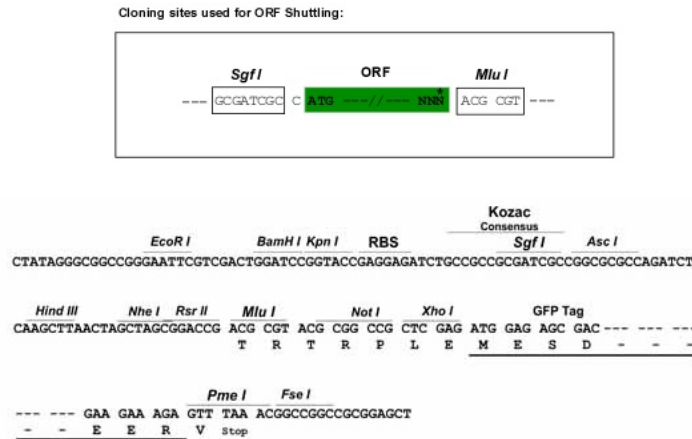
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG238074  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDVLLRVFVERRQQYFSDLFNILDTAIIIVILLVVDVVIFFDIKLLRNIPRWTLLRLLRIILLRIFH  
 LFHQKRQLEKLIRRVSENKRRYTRDGFDDLTYVTERIAMSFPSSGRQSFYRNPKEVVRFLDKKHR  
 NHYRVNLCSERAYDPKHFHNRVVRIMIDDHNVPTLHQMVVFTKEVNEWMAQDLENIVAICHCKGGTDR  
 GTMVCAFLIASEICSTAKESLYFGERRTDKTHSEKFQGVETPSQKRYVAYFAQVKHLYNWNLPPRRIL  
 FIKHFIIYSIPRYRDLKIQIEMEKKVVFSTISLTKCSVLDNITTDKILIDVFDGLPLYDDVKVQFFYS  
 NLPTYDNCsfyfwlhtsfienrlylPKNELDNLHKQKARRIYPSDFAVEILFGEKMTSSDVAAGSD  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001290224

**ORF Size:** 1239 bp

**OTI Disclaimer:** 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).

**RefSeq:** [NM\\_001290224.1](#), [NP\\_001277153.1](#)

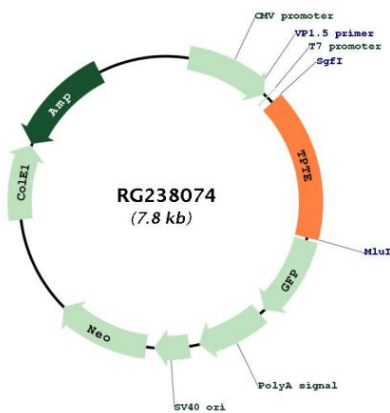
**RefSeq Size:** 2489 bp

RefSeq ORF: 1242 bp  
 Locus ID: 7179  
 UniProt ID: [P56180](#)

Cytogenetics: 21p11.2  
 Protein Families: Druggable Genome, Transmembrane  
 MW: 49.8 kDa

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 RG238074