

## Product datasheet for SC114111

### PTOV1 (NM\_017432) Human Untagged Clone

#### Product data:

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                               |
| Product Name:             | PTOV1 (NM_017432) Human Untagged Clone                                                            |
| Tag:                      | Tag Free                                                                                          |
| Symbol:                   | PTOV1                                                                                             |
| Synonyms:                 | ACID2; PTOV-1                                                                                     |
| Mammalian Cell Selection: | None                                                                                              |
| Vector:                   | <u>pCMV6-XL4</u>                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                            |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_017432, the custom clone sequence may differ by one or more nucleotides |

```

ATGGTCCGTCCGCGCCGTGCCCGTACCGCTCCGCGCCGGGGGCCCCCTCGGGGGTGC GGCGCCGCTC
CGCGGCCCTCGTGCGCGCCGTCCGCTCGCGCTCCTGGCCTGCCAGCCCCGAGGCCCGCAGCCTCC
GCGGATCCGGGCCCGCTCGGCCCTCCCATGGAAGGTGCTCGGGTCTTCGGGGCACTGGTCCCATCGGT
CCCTCCTCACCTGGGCTCACCTCGGGGTCTGGCCGTGAGCGAGCACC GGCTCAGCAACAAGCTGCTGG
CTTGAGCGGGCTCCTCGAGTGGCAGGAGAAGCGCAGACCCTACTCTGACTCCACTGCAAGCTGAAGCG
GACCCTGCCCTGCCAAGCTACGTGAACCAAGGCGAGAACCTGGAGACCGACCACTGGCCGAGAAGCTG
ATCATGCAGTGATCCCTCAGCAGCTGCTGACCACCCTGGGCCCTGTTCGGAACTCCAGTTGGCAC
AGTTCCACTTCACCAACAGAGACTGCGACTCGCTCAAGGGGCTCTGCCGATCATGGGCAACGGCTTCGC
GGGCTGCATGCTGTTCCCCACATCTCCCCCTGTGAGGTGCGCGTGCTCATGCTCCTGTACTCGTCCAAG
AAGAAGATCTTCATGGGCCTCATCCCCACGACCAGAGCGGCTTCGTAGTGCCATCCGGCAGGTATCA
CCACCCGCAAGCAGGCACTGGGACCTGGTGGTGTCAACTCAGGCCAGTCCAGATCGTCAACAACAAGTT
TCTGGCATGGAGTGGTGTATGGAGTGGCAGGAGCCAGGCTGAGCCCAACAGTCGGTCCAAGAGGTGG
CTGCCATCCACGTCTACGTGAACAGGGGAGATCCTGAGGACCGAGCAGTGGCCAAGGAAGCTGTACA
TGCAGCTCATCCCGCAGCAGCTGCTGACCACCCTAGTGCCGCTGTTCCGAACTCGCGCTGGTCCAGTT
CCACTTCACCAAGGACCTGGAGACACTGAAGAGCCTGTGCCGATCATGGACAATGGCTTCGCCGGCTGC
GTGCACCTTTTCTACAAAGCATCGTGTGAGATCCGCGTGCTTATGCTCCTGTACTTTAGAGAGAAGAAA
TCTTCATTGGCCTCATCCCCATGACCAGGGCAACTTTGTCAACGGCATCCGGCGTGTCATTGCCAACCA
GCAGCAGGTCTGCAGCGGAACCTGGAGCAGGAGCAACAGCAACAGGGATGGGGGGTAG
  
```


[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017432 unedited  
 ATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCCGAGCCCCCTTGTGGCCCG  
 CGGCAGCTCCCGCCCGCTCGGCCCGGCCCGCCATGGTCCGTCGCGCCGTGCCCGTA  
 CCGCTCCGGCGCCGGGGGCCCCCTCGGGGGGTGCGGCCGCCCTCCGCGGCCCTCGTGG  
 TGCGCGCCGTCCGCTCGCGCTCCTGGCTGCCAGCCCCGAGGCCCGAGCCTCCGCGGA  
 TCCGGGCCCGCTCGGCCCTCCATGGAAGGTGCTCGGGTCTTCGGGGCACTGGGTCCC  
 CGGTCCCCTCACCTGGGCTCACCTCGGGGGTCTGGCCGTGAGCGAGCACCGGCTCAG  
 CAACAAGCTGCTGGCTTGAGCGGCGTCCTCGAGTGGCAGGAGAAGCGCAGACCTACTC  
 TGACTCCACTGCAAAGCTGAAGCGGACCCTGCCCTGCCAAGCCTACGTGAACCAAGGCGA  
 GAACCTGGAGACCGACAGTGGCCGAGAAGCTGATCATGCAGCTGATCCCTCAGCAGCT  
 GCTGACCACCCTGGGCCCTGTTCGGAATCCAGTTGGCACAGTTCCACTTCACCAA  
 CAGAGACTGCGACTCGCTCAAAGGGCTCTGCCGCATCATGGGCAACGGCTTTCGGGGCTG  
 CATGCTGTNTCCACATCTCCCCTGTGAAGTGCCTGCTCATGCTCTGTACTCGTC  
 CAAGAGAAAGATNTCATGGGCCTCATCCCTACAAACAGAGCGGCTTTGTAGTGGCAT  
 TCCGGCAGGTATCAACACCCGCAAGCAGGCATTGGACCTTGGTGGTGTCAACTAGGCCCA  
 GNTAAATCGTAACAACAAGTTTGAATGGAATGGTGTCTTGAATGGAAGAAACCAAG  
 CTTGAACCAACAATGTCAAAAAAGGGGTGAATCCAAGTAAACGGAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_017432 unedited  
 TATGGCCGCGCCGCATCTAAAGTCGGTTTTTTTTTTTTTTTTTTTTTTGGGCTTTAAAA  
 GGCTTTATTGGGAAACGTAGAGGGGTGGGACCGTCCTTGGAGGCTCAGGACACCATC  
 CTCCATGTTGCTGGGCAGTTGAAGTCCCAGGGGCCCTGCTCATAAGCGTGTACACAGT  
 CTCTGCGGGGGCTCATCTGTGACTCCTGGAGGGGCCAGCCCGGGTAACCACTACCCC  
 CCCATCCCTCGTTGCTGTTGCTCCTGCTCCAGGTTCCGCTGCAGGACCTGCTGCTGGTTG  
 GCAATGACACGCCGGATGCCGTTGACAAAGTTGCCCTGGTCATGGGGGATGAGGCCAATG  
 AAGATTTTCTTCTCTGAAGAGTACAGGAGCATAAGCACGCGGATCTCACACGATGCTTTG  
 TAGGAAAAGTGACACGAGCCGCGAAGCCATTGTCCATGATCCGGCACAGGCTCTTCAGT  
 GTCTCCAGGTCCTTGGTGAAGTGGAACTGGACAGGCGCGAGTTCCGGAACAGCGGCACT  
 AGGGTGGTCAGCAGCTGCTGCGGGATGAGCTGCATGTACAGCTTCCTTGGCCACTGCTCG  
 GTCCTCAAGATCTCCCCCTGGTTACGTAGACGTGGGATGGCAGCCACCTCTTGGACCGA  
 CTGTTGGGCTCATGCCTGGGCTCCTGCCACTCCATGACACCACTCCATGCCAGAACTTG  
 GTGTTGACGATCTGGACTGGGCTGAGTTGACACCAAGGTCCCACTGCCTGCTTGCNN  
 GGTGGTATGACCTGCCGATGGCACTGACGAANCCGCTCTGGTCGTAGGGGATGAGGCC  
 CATTGAGATCTTCTTCTTGGACGATACAGGAGCATGAGCACGCGCACCTACATGGGGAGA  
 TGTGGGGGATCAGCATGTACCCGCGGAGCCCGTTGCCATGAATGCGCAGAGCCCTGA  
 GCGATTCCCATCTCTGTGTGGTGTGAGTGAACGTGCCACCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017432

**Insert Size:**

1460 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_017432.2](#), [NP\\_059128.2](#)

**RefSeq Size:** 1884 bp

**RefSeq ORF:** 1884 bp

**Locus ID:** 53635

**UniProt ID:** [Q86YD1](#)

**Cytogenetics:** 19q13.33

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a protein that was found to be overexpressed in prostate adenocarcinomas. The encoded protein was found to interact with the lipid raft protein flotillin-1 and shuttle it from the cytoplasm to the nucleus in a cell cycle dependent manner. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). This transcript contains splicing in the 3' UTR that makes it a candidate for nonsense-mediated mRNA decay (NMD). However, this protein is thought to be valid.