

Product datasheet for **RG208317**

PTOV1 (NM_017432) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTOV1 (NM_017432) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PTOV1
Synonyms: ACID2; PTOV-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208317 representing NM_017432
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCGTCGCGCCGTGCCCGTACCGCTCCGGCGCCGGGGCCCCCTCGGGGTGCGGGCCGCCCTC
 CGCGGCCCTCGTGGTGC GCGCCGTCCGCTCGCGCTCCTGGCTGCCAGCCCCGAGGCCCGCAGCCTCC
 GCGGATCCGGGCCGCTCGGCCCTCCCATGGAAGGTGCTCGGGTCTTCGGGGCACTGGTCCCATCGGT
 CCCTCCTCACCTGGGCTCACCTCGGGGTCTGGCCGTGAGCGAGCACCGGCTCAGCAACAAGCTGCTGG
 CTTGGAGCGGCGTCTCGAGTGGCAGGAGAAGCGCAGACCCTACTCTGACTCCACTGCAAAGCTGAAGCG
 GACCCTGCCCTGCCAAGCTACGTGAACCAAGGCGAGAACCTGGAGACCGACCAGTGGCCGAGAAGCTG
 ATCATGCAGCTGATCCCTCAGCAGCTGCTGACCACCCTGGGCCCCCTGTTCCGGAACCTCCAGTTGGCAC
 AGTTCCACTTCACCAACAGAGACTGCGACTCGCTCAAGGGGCTCTGCCGCATCATGGGCAACGGCTTCGC
 GGGCTGCATGCTGTTCCCCACATCTCCCCCTGTGAGGTGCGCGTGTCTCATGCTCCTGTACTCGTCCAAG
 AAGAAGATCTTCATGGGCTCATCCCCTACGACCAGAGCGGCTTCGTAGTGCATCCGGCAGGTATCA
 CCACCCGCAAGCAGGCAGTGGGACCTGGTGGTGTCAACTCAGGCCAGTCCAGATCGTCAACAACAAGTT
 TCTGGCATGGAGTGGTGTATGGAGTGGCAGGAGCCAGGCCCTGAGCCCAACAGTCCGTTCCAAGAGGTGG
 CTGCCATCCCACGTCTACGTGAACCAGGGGAGATCCTGAGGACCGAGCAGTGGCCAAGGAAGCTGTACA
 TGCAGCTCATCCCGCAGCAGCTGCTGACCACCCTAGTGCCGCTGTTCCGGAACCTCGCGCCTGGTCCAAGT
 CCACTTACCAAGGACCTGGAGACTGAAGAGCCTGTGCCGGATCATGGACAATGGCTTCGCCGCTGC
 GTGCATTTTCTACAAAGCATCGTGTGAGATCCGCGTGTATGCTCCTGTACTCTTACAGAGAAGAAAA
 TCTTCATTGGCCTCATCCCCATGACCAGGGCAACTTTGTCAACGGCATCCGGCGTGTATTGCCAACCA
 GCAGCAGTCTGCAGCGGAACCTGGAGCAGGAGCAACAGCAACGAGGGATGGGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208317 representing NM_017432
 Red=Cloning site Green=Tags(s)

MVRPRRAPYRSGAGGPLGGRGRPPRPLVVRAVRSRWPASPRGPQPPRIRARSAPPMEGARVFGALGPIG
 PSSPGLTLGGLAVSEHRLSNKLLAWSGVLEWQEKRRPYSDSTAKLKRTLPCQAYVNQGENLETDQWPQKL
 IMQLIPQQLLTTLGPLFRNSQLAQHFHTNRDCDSLKGLCRIMGNGFAGCMLFPHISPCEVRVLMLLYSSK
 KKIFMGLIPYDQSGFVSAIRQVITTRKQAVGPGGVNSGVPQIVNNKFLAWSGVMEWQEPREPEPNSRSKRW
 LPSHVYVNQGEILRTEQWPRKLYMQLIPQQLLTTLVPLFRNSRLVQFHFTKDLETLKSLCRIMDNGFAGC
 VHFSYKASCEIRVLMMLLYSSEKKIFIGLIPHDQGNFVNGIRRVIANQQVLQRNLEQEQQQRGMGG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017432

ORF Size: 1248 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).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017432.5](#)

RefSeq Size: 1884 bp

RefSeq ORF: 1251 bp

Locus ID: 53635

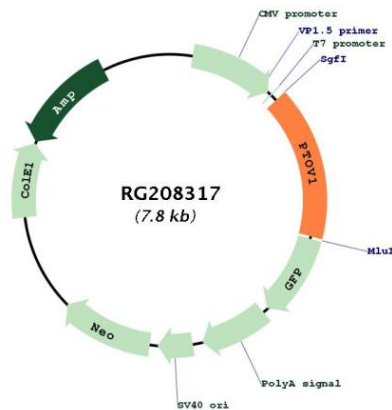
UniProt ID: [Q86YD1](#)

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]

Product images:



Circular map for RG208317