

Product datasheet for **RG216895**

PHETA2 (NM_001002034) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHETA2 (NM_001002034) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHETA2
Synonyms:	FAM109B; IPIP27B; Ses2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216895 representing NM_001002034 Red =Cloning site Blue =ORF Green =Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAAGCTGAACGAGAGGAGTGTAGCCCACTATGCACTCAGCGACTCCCCAGCGGACCACATGGGCTTCC
 TGCGCACCTGGGGGGGCCAGGGACCCACCGACCCCACTGGCACTGGCCGAAGATGCTGGTTTGTCTT
 CAAGGGCAACCTGCTATTCTCTTTGAGAGTCGCGAGGGCCGGGCCCCACTGAGCCTGGTGGTGTGGAA
 GGCTGCACAGTGAAGTGGCCGAGGCTCCCGTGCCGAGGAGTTGCCTTTGCCATCTGCTTTGATGCCC
 CTGGAGTGCGCCACACCTGCTGGCCGAGAAGGGCCGCGGCCAGGAGCCTGGGTGAAGGTGCTGTC
 CCGGGCAAGCTTTGGCTACATGCGCCTGGTGGTACGCGAGTTGGAGAGCCAGTTGCAGGACGCACGCCAG
 AGCCTGGCTTTGCAACGCCGCTCATCTGGAAGTCTGTTGCCAGCCGCTGTAAGCCCCAGGCTCCTAACC
 ACCGAGCTGCGGGCCTGGAGAATGGCCACTGCCTCTCCAAGGACAGCAGCCCTGTGGGCTTGGTTGAAGA
 AGGGGGCAGCAGGTCTGCAGGTGGGGTTGGCTGAGTGGGAGCTGCAGGGCCCTGCCAGCTCCTCCTA
 GGCAAGGGGCAGAGCCCTGTGTCCCTGAGACCTCCTGCTTCTCTACCCTGCATGACTGGTATGGCCAGG
 AGATCGTGGAGCTGCGGCAGTGTGGCAGAAGAGGGGCCAGGGGAGCCACTCAAAATGTGAGGAACAGGA
 TAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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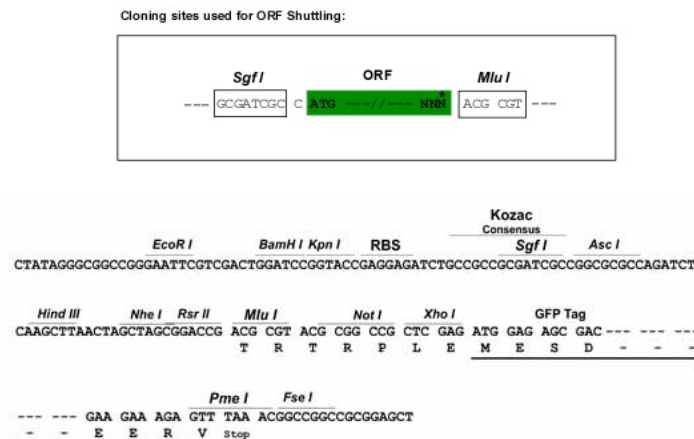
Protein Sequence: >RG216895 representing NM_001002034
 Red=Cloning site Green=Tags(s)

MKLNERSVAHYALSDSPADHMGFLRTWGGPGTPPTPSGTGRRWFVLKGNLLFSFESREGRAPLSLVVLE
 GCTVELAEAPVPEEF AFAICFDAPGVRPHLLAEGPAAQEAWKVLSRASFGYMRLLVRELESQDARQ
 SLALQRRSSWKSVASRCKPQAPNHRAAGLENGHCLSKDSSPVGLVEEGGSRAGWGLAEWELQGPASLLL
 GKGGQSPVSPETSCFSTLHDWYGQEIVELRQCWQKRAQGSHSKCEEQDRP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002034

ORF Size: 777 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.

RefSeq: [NM_001002034.1](#), [NP_001002034.1](#)

RefSeq Size: 2396 bp

RefSeq ORF: 780 bp

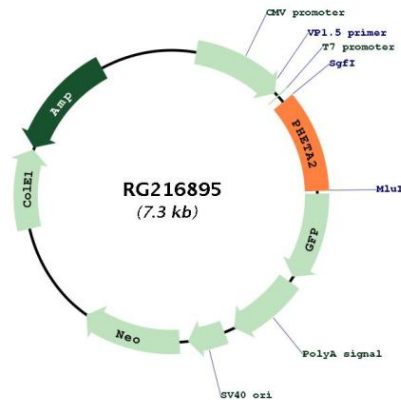
Locus ID: 150368

UniProt ID: [Q6ICB4](#)

Cytogenetics: 22q13.2

Gene Summary: Plays a role in endocytic trafficking. Required for receptor recycling from endosomes, both to the trans-Golgi network and the plasma membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216895