

## Product datasheet for **RG202917**

### **Pet1 (FEV) (NM\_017521) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pet1 (FEV) (NM_017521) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pet1
Synonyms:	HSRNAFEV; PET-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202917 representing NM_017521 <span style="color: red;">Red</span> =Cloning site <span style="color: blue;">Blue</span> =ORF <span style="color: green;">Green</span> =Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGAGACAGAGCGGCGCCTCCAGCCCCTGCTGATCAACATGTACCTGCCAGATCCCGTCGGAGACGGTC  
 TCTTCAAGGACGGGAAGAACCCGAGCTGGGGGCCGCTGAGCCCCGCGTTCAGAAAGGCAGCGGACAGAT  
 CCAGCTGTGGCAGTTTCTGCTGGAGCTGCTGGCTGACCGCGCAACGCCGGCTGCATCGCGTGGGAGGGC  
 GGTACGGCGAGTTCAAGCTCACGGACCCGACGAGGTGGCGCGCGGTGGGGCGAGCGCAAGAGCAAGC  
 CCAACATGAACACGACAAGCTGAGCCGCGCCCTGCGCTACTACTACGACAAGAATCATGAGCAAGGT  
 GCATGGCAAGCGCTACGCTACCGCTTCGACTTCAGGGCCTGGCGCAGGCCTGCCAGCCGCCGCCCGCG  
 CACGCTCATGCCGCCGCCGAGCTGCTGCCGCCGCCGCCGCCAGGACGGCGCGCTCTACAAGCTGC  
 CCGCCGGCCTCGCCCCGCTGCCCTTCCCCGGCCTCTCCAACTCAACCTCATGGCCGCTCGGCCGGGT  
 CGCGCCCGCCGGCTTCTCTACTGGCCGGGCCCGGGCCCCGCCGCCACCGCTGCCGCCGCCACCGCCGCG  
 CTCTACCCAGTCCCAGCTTGACGCCCCCGCCGGGCCCTTCGGGGCCGTGGCCGCAGCCTCGCACTTGG  
 GGGGCCATTACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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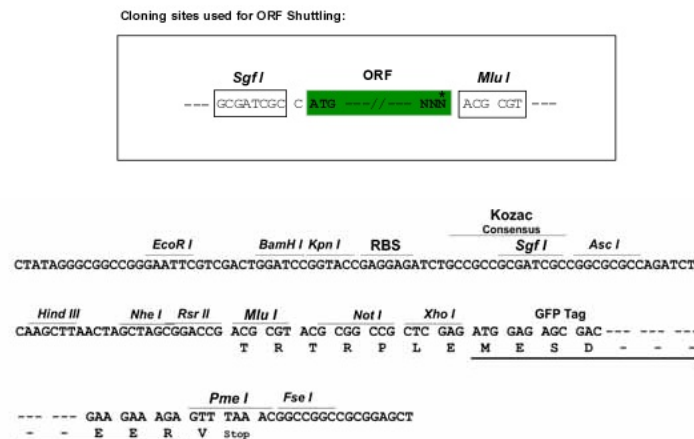
**Protein Sequence:** >RG202917 representing NM\_017521  
 Red=Cloning site Green=Tags(s)

MRQSGASQPLLINMYLPDPVGDGLFKDGKNPSWGPLSPAVQKSGSQIQLWQFLLELLADRANAGCIAWEG  
 GHGEFKLTDPDEVARRWGERKSKPNMNYDKLSRALRYYYDKNIMSKVHGKRYAYRFDQGLAQACQPPPA  
 HAAAAAAAAAAAAAQDGALYKLPAGLAPLPFPGLSKLNLMASAGVAPAGFSYWPGPAPAATAAAATAA  
 LYPSPSLQPPPGPFGAVAAASHLGGHYH

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017521

**ORF Size:** 714 bp

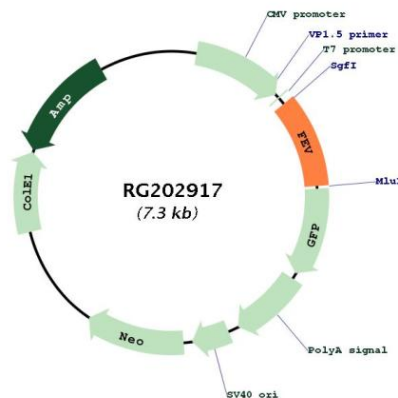
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_017521.3</u>
<b>RefSeq Size:</b>	1901 bp
<b>RefSeq ORF:</b>	717 bp
<b>Locus ID:</b>	54738
<b>UniProt ID:</b>	<u>Q99581</u>
<b>Cytogenetics:</b>	2q35
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	This gene belongs to the ETS transcription factor family. ETS family members have a highly conserved 85-amino acid ETS domain that binds purine-rich DNA sequences. The alanine-rich C-terminus of this gene indicates that it may act as a transcription repressor. This gene is exclusively expressed in neurons of the central serotonin (5-HT) system, a system implicated in the pathogeny of such psychiatric diseases as depression, anxiety, and eating disorders. In some types of Ewing tumors, this gene is fused to the Ewing sarcoma (EWS) gene following chromosome translocations. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG202917