

Product datasheet for **RG216387**

Pit1 (POU1F1) (NM_000306) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Pit1
Synonyms:	CPHD1; GHF-1; Pit-1; PIT1; POU1F1a
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216387 representing NM_000306
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTGCCAAGCTTTTACTTCGGCTGATACCTTTATACCTCTGAATTCTGACGCCTCTGCAACTCTGC
CTCTGATAATGCATCACAGTGTCTGCCGAGTGTCTACCAGTCTCCAACCATGCCACCAATGTGATGTCTAC
AGCAACAGGACTTCATTATTCTGTTCTTCTCTGTCATTATGGAAACCAGCCATCAACCTATGGAGTGATG
GCAGGTAGTTTAACCCCTTGTCTTTATAAATTTCTGACCACACCTTGAGTCATGGATTTCTCTCTATAC
ACCAGCCTCTTCTGGCAGAGGACCCACAGCTGCTGATTTCAAGCAGGAACCTCAGGCGGAAAAGTAAATT
GGTGAAGAGCCAATAGACATGGATTCTCCAGAAATCAGAGAACTTGAAAAGTTTGCCAATGAATTTAAA
GTGAGACGAATTAATAGGATACCCAGACAAATGTTGGGAGGCCCTGGCAGCTGTGCATGGCTCTG
AATTCAGTCAAACAACAATCTGCCGATTTGAAAATCTGCAGCTCAGCTTTAAAAATGCATGCAAACTGAA
AGCAATATTATCCAAATGGCTGGAGGAAGCTGAGCAAGTAGGAGCTTTGTACAATGAAAAGTGGGAGCA
AATGAAAGGAAAAGAAAACGAAGAACAATAAGCATTGCTGCTAAAGATGCTCTGGAGAGACACTTTG
GAGAACAGAATAAACCTTCTTCTCAAGAGATCATGAGGATGGCTGAAGAACTGAATCTGGAGAAAAGT
AGTAAGAGTTTGGTTTTGCAACCGGAGGCAGAGAGAAAACGGTGAAAACAAGTCTGAATCAGAGTTTA
TTTTCTATTCTAAGGAACATCTTGAGTGCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG216387 representing NM_000306

Red=Cloning site Green=Tags(s)

MSCQAFTSADTFIPLNSDASATLPLIMHSAECLPVSNHATNVMSTATGLHYSVPSCHYGNQPSYGYM
AGSLTPCLYKFPDHTLSHGFPPIHQPLLAEDPTAADFKQELRRKSKLVEEPIDMSPEIRELEKFAFEFK
VRIKLGTYQTNVGEALAAVHGSEFSQTTICRFENLQLSFKNACKLKAILSKWLEEAQVVGALYNEKVGA
NERKRRRTTISIAAKDALERHFGEQNKPSQEIMRMAEELNLEKEVVRVWFCNRRQREKRVKTSLNQSL
FSISKEHLECR

TRTRPLE - GFP Tag - V

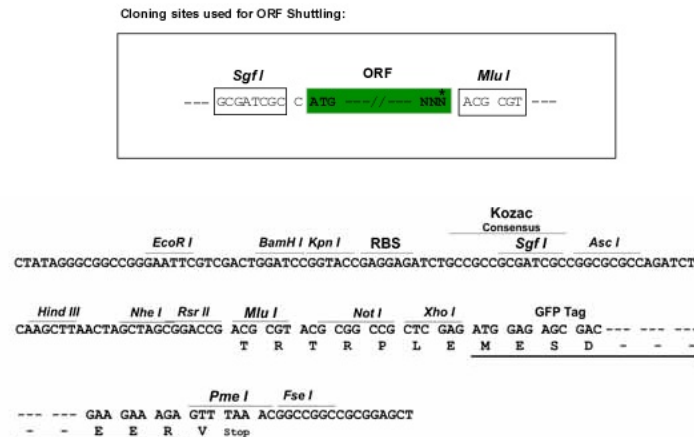
Chromatograms:

https://cdn.origene.com/chromatograms/ja3704_e09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_000306

ORF Size:

873 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:

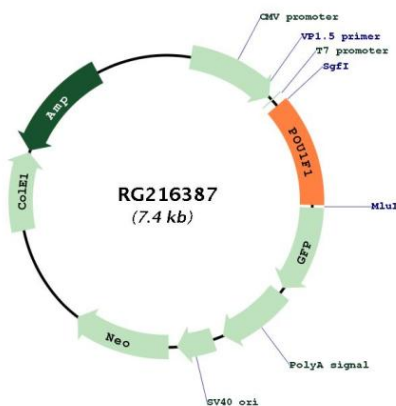
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000306.4
RefSeq Size:	1262 bp
RefSeq ORF:	876 bp
Locus ID:	5449
UniProt ID:	P28069
Cytogenetics:	3p11.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes a member of the POU family of transcription factors that regulate mammalian development. The protein regulates expression of several genes involved in pituitary development and hormone expression. Mutations in this genes result in combined pituitary hormone deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216387