

## Product datasheet for **RG220331**

### **PYGO1 (NM\_015617) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PYGO1 (NM_015617) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PYGO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220331 representing NM_015617 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCGCCGAGAACTCTCCAGCTCCCGTTACAAAGTTTCTCGCATGGTGGTGATAGTGGACTGGATG  
GGTTAGGAGGACCAGGTGTACAACCTAGGAAGCCAGATAAGAAAAAGCGCAAGGCAAATACACAGGGACC  
TTCTTTCCCTCCATTGTCTGAGTATGCTCCACCACCGAATCCAACTCTGACCATCTAGTGGCTGCTAAT  
CCATTTGATGACAATAAATACTATTTCTATAAACCACTACCTTCGTCAAATCCATATCTTGGCCCTG  
GTTATCCTGGCTTTGGAGGCTATAGTACATTCAGAATGCCACCTCACGTTCCCCAAGAATGTCTTCCCC  
ATACTGTGGTCTTACTCACTCAGGAACCGCCACCCATTTCTCAGAATCCTCTGGCATGGGTTTT  
AATCGACCTCATGCTTTAACTTTGGGCCACATGATAATTCAAGTTTCGGTAATCCATCTTATAAATG  
CACTAAGTCAGAAATGCAACATGCCTAATCAACATTTTAGACAAAATCCTGCTGAAAATTCAGTCAAAT  
TCCTCCACAGAATGCTAGCCAAGTTTCTAACCCGATTTGGCATCTAATTTTGTCTGGAAATAATTCA  
AATTTTACTTCTCCGTTAGAATCTAATCATTTCTTTATTCTCCCCAACACTTTTGGTCAAGCAAAG  
CACCACCCCAAAACAAGACTTTACTCAAGGAGCAACCAAAAACACTAATCAAAATTCCTCTGCTCATCC  
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GCAGTAAATCAGGAGAACAGCCGTTCAAGTAGCACTGAAGCCACAAACAATAACCCTGCAATGGGACGC  
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TACCCAAACCGTCATGGCCATTCGTTCTGACCCAGTGTATCCTTGTGGAATTTGTACAACGAGGTG  
AACGATGATCAGGATGCCATCTTATGTGAGGCCTCTTGTGAGAAATGGTTTCATCGGATCTGACTGGAA  
TGACTGAAACAGCTTATGGCCTCTTAACTGCAGAAGCATCTGCAGTATGGGGCTGTGATACCTGTATGGC  
TGACAAAGATGTCCAGTTAATGCGTACTAGAGAACTTTTGGTCCATCTGCAGTGGGCAGTGATGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG220331 representing NM\_015617  
Red=Cloning site Green=Tags(s)

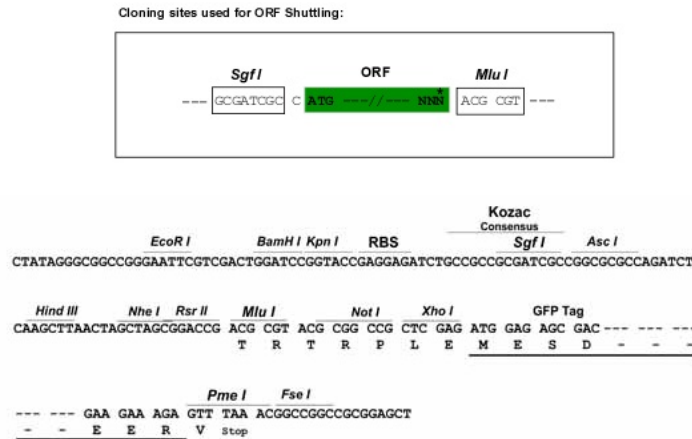
MPAENSPAPAYKVSSHGGDSGLDGLGGPGVQLGSPDKKKRKANTQGPSFPPLSEYAPPPNPNSDHLVAAN  
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 NRPHAFNFGPHDNSSFGNPSYNNALSQNVNMPNQHFQRNPAENFSQIPPQNASQVSNPDLASNFVPGNNS  
 NFTSPLESNHSFIPPPNTFGQAKAPPPKQDFTQGATKNTNQNSSAHPHLMDDTVNQSNIELKNVNRNN  
 AVNQENSRSSTEATNNNPANGTQNKPRQPRGAADACTTEKSNKSSLHPNRHGHSSSDPVYPCGICTNEV  
 NDDQDAILCEASCQKWFHRICTGMTETAYGLLTAESAVWGCDTCMADKDVQLMRTRETFGPSAVGSDA

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1991\\_c11.zip](https://cdn.origene.com/chromatograms/ja1991_c11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015617

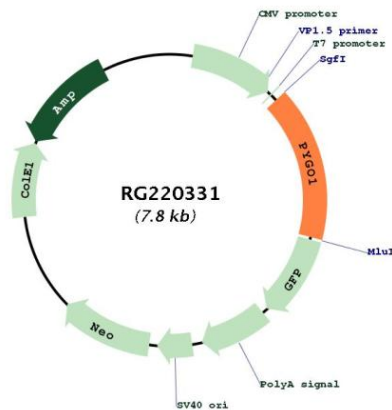
**ORF Size:** 1257 bp

**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](#)

<b>OTI Annotation:</b>	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><a href="#">NM_015617.3</a></u>
<b>RefSeq Size:</b>	1260 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	26108
<b>UniProt ID:</b>	<u><a href="#">Q9Y3Y4</a></u>
<b>Cytogenetics:</b>	15q21.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	Involved in signal transduction through the Wnt pathway.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG220331