

Product datasheet for **RG202985**

Pygopus 2 (PYGO2) (NM_138300) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pygopus 2 (PYGO2) (NM_138300) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pygopus 2
Synonyms:	1190004M21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202985 representing NM_138300 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCTCGGCGCCGCCACCGGACAAGCTGGAGGGAGGTGGCGGCCCGCACCGCCCCCTGCGC
CGCCAGCACCGGGAGGAAGCAGGGCAAGGCCGTCTGCAATGAAGAGTCCAGAAAAGAAGCGAAGGAA
GTCAAATACTCAGGGCCCTGCATACTCACATCTGACGGAGTTTGACCACCCCAACTCCATGGTGGAT
CACCTGGTTGCATCCAACCTTTTGAAGATGACTTCGGAGCCCCAAAGTGGGGGTTGCAGCCCCCTCAT
TCCTTGGCAGTCTGTGCCCTTCGGAGGCTTCCGTGTGCAGGGGGCATGGCGGGCCAGGTACCCCAAG
CTACAGCACTGGAGGTGGAGGGGCCCCAGCCACTCCGTGACAGCCACCCCTTCCCTCCCAATCCT
ATGGGCCCTGCTTTCAACATGCCCCCCAGGGTCTGGCTACCCACCCCAAGCAACATGAACTTTCCCA
GCCAACCTTCAACCAGCCTCTGGGTCAAACCTTTAGTCCTCCAGTGGGCAGATGATGCCGGGCCAGT
GGGGGATTTGGTCCCATGATCTCACCCACCATGGGACAGCCTCCAGAGCAGAGCTGGGCCACCTTCT
CTGTCCAACGATTTGCTCAGCCAGGGGCTCCTTTGGCCCTTCTCTCCAGAGACCTGGTCAAGGGC
TCCCAGCCTGCCGCTAACACAAGTCCCTTCTGGTCCGACCTGGCTTCTGGCCCTGGTGGTGA
GGATGGGGGAAGCCCTTGAATCCACCTGCTTCTACTGCTTTTCCCAGGAGCCCCACTCAGGCTCCCCG
GCTGCTGCTGTTAATGGGAACCGCCAGTTTCCCCCGAACAGCAGTGGCGGGGTGGGGGCATCCAG
ATGCCAACAGCTTGGCACCCCTGGCAAGGCAGGTGGGGGCTCCGGGCCAGCCTCCCCAGGCTTGGT
GTACCCATGTGGTGCCTGTGCGAGTGAGGTGAACGATGACCAGGATGCCATTCTGTGTGAGGCTCCTGC
CAGAAATGGTTCCACCGTGAAGTGCACAGGCATGACTGAGAGCGCCTATGGGCTGCTGACCACTGAAGCTT
CTGCCGCTGGGCTGCGATCTCTGCCTCAAGACCAAGGAGATCCAGTCTGTCTACATCCGTGAGGGCAT
GGGGCAGCTGGTGGCTGCTAACGATGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202985 representing NM_138300
 Red=Cloning site Green=Tags(s)

MAASAPPPDKLEGGGGPAPPAPPSTGRKQKAGLQMKSPKRRKRSNTQGPAYSHLTFAPPPTPMVD
 HLVASNPFEDDFGAPKVGVAAPPFLGSPVPFGGFRVQGGMAGQVPPGYSTGGGGPQPLRRQPPFPNP
 MGFAPFNMPQGGYPPPGNMNFPSPFNQPLGQNFSPSSGQMMMPGVGGFGPMISPTMGQPPRAELGPPS
 LSQRFAQPGAPFGPSPLQRPGQLPSLPPNTSPFPGDPGFGPGGEDGGKPLNPPASTAFPQEPHSGSP
 AAAVNGNQPSFPPNSSRGGGTPDANSLAPPKAGGGSGPQPPGLVYPCGACRSEVNDQDAILCEASC
 QKWFHRECTGMTESAYGLLTTEASAVWACDLCLKTKEIQSVYIREGMQLVAANDG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138300

ORF Size: 1218 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_138300.4](#)

RefSeq Size: 3227 bp

RefSeq ORF: 1221 bp

Locus ID: 90780

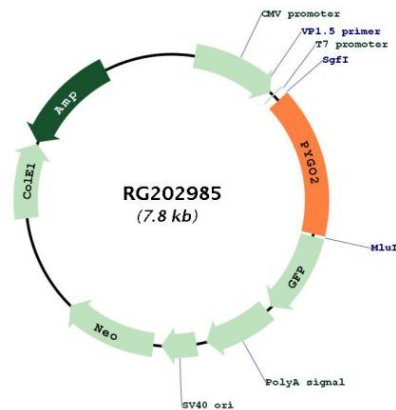
UniProt ID: [Q9BRQ0](#)

Cytogenetics: 1q21.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Involved in signal transduction through the Wnt pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202985