

## Product datasheet for **RG208189**

### **PALB2 (NM\_024675) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PALB2 (NM_024675) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PALB2
Synonyms:	FANCN; PNCA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208189 representing NM_024675 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGAGCCTCCCGGAAGCCCTCAGCTGTGAGGAGAAGGAAAAGTTAAAGGAGAAATTAGCATTCT  
TGAAAAGGGAATACAGCAAGACTAGCCCGCCTTCAGCGTGCCCAAAGAGCTGAAAAGATTAAGCATTCT  
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AGACTCTCATTTGCTGGCTGGACAAAAAGATGGAATATATTTGTATACCACTATTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208189 representing NM\_024675  
 Red=Cloning site Green=Tags(s)

MDEPPGKPLSCEEKEKLKEKLAFLKREYSKTLARLQRAQRAEKIKHSIKKTVEEQDCLSQDLSQQLKHS  
 EPKNKICVYDKLHIKTHLDEETGEKTSITLDVGPESFNPGDGPGGLPIQRTDDTQEHFPHRVSDPSGEQK  
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 EPVTEINEDSVLIPPTAQPEKGVDTFLRRPNFTRATTVPLQTLSDSGSSQHLEHIPPKGSSSELTHDLKN  
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 SGTLSDDQVEVMTFAEDGGGKENQFLMPPEETILTFAEVQGMQEALLGTTIMNIVIWNLKTGQLLKKMH  
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TRTRPLE - GFP Tag - V

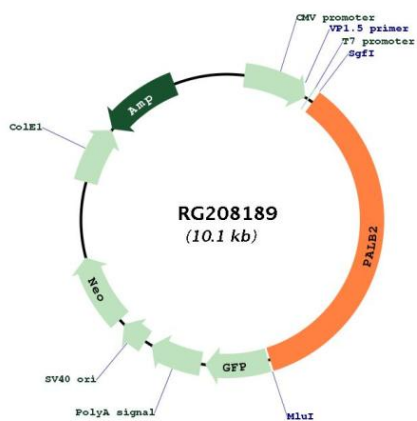
**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



**ACCN:** NM\_024675  
**ORF Size:** 3558 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_024675.4</a>
<b>RefSeq Size:</b>	4069 bp
<b>RefSeq ORF:</b>	3561 bp
<b>Locus ID:</b>	79728
<b>UniProt ID:</b>	<a href="#">Q86YC2</a>
<b>Cytogenetics:</b>	16p12.2
<b>Gene Summary:</b>	This gene encodes a protein that may function in tumor suppression. This protein binds to and colocalizes with the breast cancer 2 early onset protein (BRCA2) in nuclear foci and likely permits the stable intranuclear localization and accumulation of BRCA2. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208189