

## Product datasheet for **RG208197**

### Pellino 1 (PELI1) (NM\_020651) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pellino 1 (PELI1) (NM_020651) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pellino 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208197 representing NM_020651 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTTCTCCTGATCAAGAAAATCATCCATCTAAAGCACCAGTAAAATATGGTGAACCTATTGTCTTAG  
GGTATAATGGGTCTCTCCAAATGGCGATAGAGGAAGGAGGAAAAGTAGGTTTGCCTTTGTTAAAAGACC  
TAAGGCAAATGGGGTGAAGCCAGCACTGTGCATATTGCTTGTACTCCTCAGGCTGCAAAGGCAATAAGC  
AACAAAGACCAGCATAGCATATCATATACTTTATCTCGGGCCAGACTGTGGTGGTTGAATATACTCATG  
ACAGCAACACCGATATGTTTCAGATTGGCCGGTCGACTGAAAGCCCCATTGATTTTGTAGTAACCTGACAC  
GGTTCCTGGAAGTCAAAGTAATTCTGATACACAGTCAGTACAAAAGCACTATATCAAGATTTGCCTGCAGA  
ATCATATGTGAACGGAATCCTCCCTTTACAGCACGGATTTATGCTGCAGGATTTGACTCATCAAAAAACA  
TCTTTCTTGGGAGAAGGCTGCCAAATGGAAGACATCAGATGGACAGATGGATGGCTTGACCACTAATGG  
TGTTCTTGTGATGCATCCACGCAATGGGTTACAGAAGACTCCAAGCCTGGAATATGGAGAGAAATATCG  
GTGTGTGAAATGATTTAGCCTACGTGAAACCAGATCGGCTCAGCAGAGAGGAAAAATGGTGGAAATTG  
AAACCAATCAGTTACAAGATGGCTCGTTAATTGACCTCTGTGGTGAACATTGTTATGGCGTACTGCAGA  
AGGCCTTTCCCACTCCTACCGTGAAGCATTTAGAAGCTTTAAGACAGGAAATCAATGCAGCACGACCT  
CAGTGCCTGTAGGGTTCAACACTAGCATTTCTAGTATGAAGAGGAAAGACGTTGTAGATGAAAAAC  
AACCATGGGTATATCTAAACTGCGGCCATGTACATGGCTATCATAACTGGGAAACAAAGAAGAAGTGA  
TGGAAAAGATCGTGAATGTCCTATGTGTAGGTCTGTTGGTCCCTATGTTCCCTCTGTGGCTTGGATGTGAA  
GCTGGATTTTATGTGGACGCCGGCCCTCCAACCATGCGTTTAGCCCGTGTGGGCATGTGTGTTAGAAA  
AGACAACCTGCCTATTGGTCCCAGATCCCCTTCTCATGGTACTCATACTTTTATGCAGCCTGTCCCTT  
TTGTGCACATCAGTTGGCTGGTGAACAAGGCTACATCAGACTATTTTTCAAGGACCTCTAGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG208197 representing NM\_020651  
 Red=Cloning site Green=Tags(s)

MFSPDQENHPSKAPVKYGELIVLGYNGSLPNGDRGRKSRFALFKRPKANGVKPSTVHIACTPQAAKAIS  
 NKDQHSISYTL SRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVDTVPGSQSNSDTQSVQSTISRFA  
 IICERNPPFTARIYAAGFDSSKNIFLGEKAAKWKTSDDGQMDGLTTNGVLVMHPRNGFTEDSKPGI  
 WREISVCGNVFSLRETRSAQQRGKMVEIETNQLQDGLIDL CGATLLWRTA EGLSHTPTVKHLEALR  
 QEINAARPQCPVGFNTLAFPSMKRKDVVDEKQPWVYLNCGHVHGYHNWGNKEERDGDRECPMCR  
 SVGPYVPLWLGCEAGFYVDAGPPTHAFSPCGHVCSEKTTAYWSQIPLPHGHTHFHAACPFCAHQLA  
 GEQGYIRLIFQGPLD

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_020651

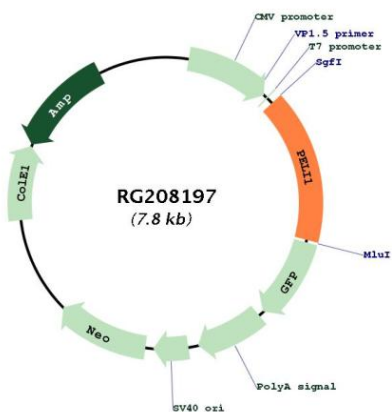
**ORF Size:** 1254 bp

**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>	<a href="#">NM_020651.4</a>
<b>RefSeq Size:</b>	7136 bp
<b>RefSeq ORF:</b>	1257 bp
<b>Locus ID:</b>	57162
<b>UniProt ID:</b>	<a href="#">Q96FA3</a>
<b>Cytogenetics:</b>	2p14
<b>Domains:</b>	Pellino
<b>Gene Summary:</b>	E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. Involved in the TLR and IL-1 signaling pathways via interaction with the complex containing IRAK kinases and TRAF6. Mediates 'Lys-63'-linked polyubiquitination of IRAK1 allowing subsequent NF-kappa-B activation (PubMed:12496252, PubMed:17675297). Mediates 'Lys-48'-linked polyubiquitination of RIPK3 leading to its subsequent proteasome-dependent degradation; preferentially recognizes and mediates the degradation of the 'Thr-182' phosphorylated form of RIPK3 (PubMed:29883609). Negatively regulates necroptosis by reducing RIPK3 expression (PubMed:29883609). Mediates 'Lys-63'-linked ubiquitination of RIPK1 (PubMed:29883609).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208197