

Product datasheet for **RG203409**

Pellino 2 (PELI2) (NM_021255) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pellino 2 (PELI2) (NM_021255) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pellino 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203409 representing NM_021255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTTCCCCTGGCCAGGAGGAACACTGCGCCCCAATAAGGAGCCAGTGAAATACGGGGAGCTGGTGG
TGCTCGGGTACAATGGTGCTTTACCCAATGGAGATAGAGGACGGAGGAAAAGTAGATTTGCCCTCTACAA
GCGGCCCAAGGCAAATGGTGTCAAACCCAGCACCGTCCATGTGATATCCACGCCCCAGGCATCCAAGGCT
ATCAGCTGCAAAGGTCAACACAGTATATCCTACACTTTGTCAAGGAATCAGACTGTGGTGGTGAGTACA
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AGACACGATTTCTGGCAGCCAGAACACGGACGAAGCCCAGATCACACAGAGCACCATATCCAGTTTCGCC
TGCAGGATCGTGTGCGACAGGAATGAACCTTACACAGCACGGATATTCGCCGCCGATTGACTCTTCCA
AAAACATATTTCTTGAGAAAAGGCAGCAAAGTGGAACCCCGACGGCCACATGGATGGGCTCACTAC
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AGCAGATGGGCTTTTTCATACTCCAACCTCAGAAGCACATAGAAGCCCTCCGGCAGGAGATTAACGCCGCC
CGGCCTCAGTGTCTGTGGGGCTCAACACCCTGGCCTTCCCAGCATCAACAGGAAAGAGGTGGTGGAGG
AGAAGCAGCCCTGGGCATATCTCAGTTGTGGCCACGTGCACGGGTACCACAACCTGGGGCCATCGGAGTGA
CACGGAGGCCAACGAGAGGGAGTGTCCCATGTGCAGGACTGTGGGCCCTATGTGCCTCTCTGGCTTGGC
TGTGAGGCAGGATTTTATGTAGACGCAGGACCGCAACTCATGCTTTCACTCCCTGTGGACAGTGTGCT
CGGAGAAGTCTGCAAAATACTGGTCTCAGATCCCGTTGCCTCATGGAACCTCATGCATTTACGCTGCTTG
CCCTTCTGTGCTACACAGCTGGTTGGGAGCAAACTGCATCAAATTAATTTCCAAGTCCAATTGAC

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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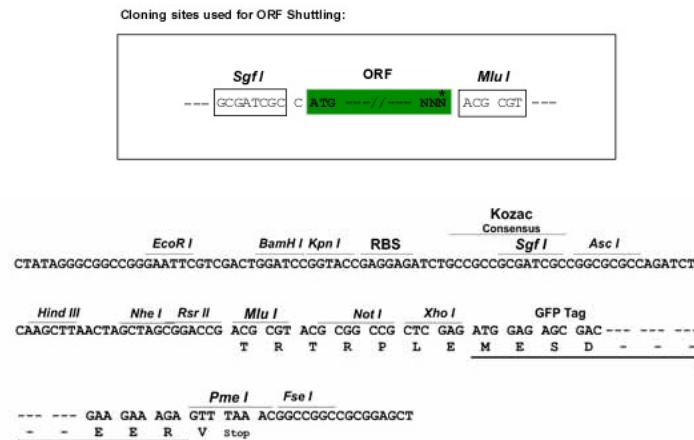
Protein Sequence: >RG203409 representing NM_021255
 Red=Cloning site Green=Tags(s)

MFSPGQEEHCAPNKEPVKYGELVVLGYNGALPNGDRGRRKSRFALYKRPKANGVKPSTVHVISTPQASKA
 ISCKGQHSISYTLSRNQTVVVEYTHDKDMDMFQVGRSTESPIDFVVDITISGSQNTDEAQITQSTISRFA
 CRIVCDRNEPYTARIFAAGFDSSKNIFLGEKAAKWKNPDPGHMDGLTTNGVLVMHPRGGFTEESQPGVWRE
 ISVCGDVYTLRETRSAQQRGKLVESETNVLQDGLIDLCGATLLWRTADGLFHTPTQKHIEALRQEINAA
 RPQCPVGLNTLAFPSINRKEVVEEKQPWAYLSCGHVHGYNWGHRSDEANERECPMCRTVGPYVPLWLG
 CEAGFYVDAGPPHTAFTPCGHVCSEKSAKYWSQIPLPHGTHAFHAACPFCAQLVGEQNCIKLIFQGPID

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021255

ORF Size: 1260 bp

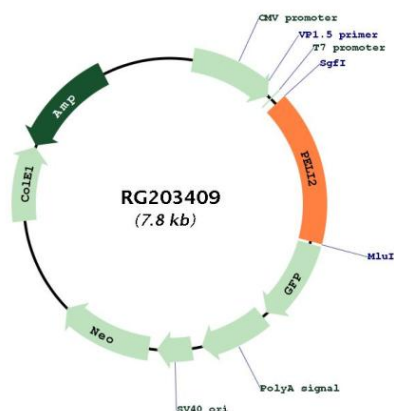
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_021255.3</u>
RefSeq Size:	5755 bp
RefSeq ORF:	1263 bp
Locus ID:	57161
UniProt ID:	<u>Q9HAT8</u>
Cytogenetics:	14q22.3
Domains:	Pellino
Protein Families:	Druggable Genome
Gene Summary:	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 IL1B-induced IRAK1 'Lys-63'-linked polyubiquitination and possibly 'Lys-48'-linked ubiquitination. May be important for LPS- and IL1B-induced MAP3K7-dependent, but not MAP3K3-dependent, NF-kappa-B activation. Can activate the MAP (mitogen activated protein) kinase pathway leading to activation of ELK1. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203409