

## Product datasheet for **RG236532**

### **RAB30 (NM\_001286060) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RAB30 (NM\_001286060) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RAB30  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236532 representing NM\_001286060.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGTATGGAAGATTATGATTTCTGTTCAAAATTGTTTAAATTGGCAACGCTGGTGTGGGGAAGACG
TGCTCGTCCGAAGATCACTCAGGGTCTTTTCCCCCAGGTCAAGGAGCCACAATTGGAGTTGATTTT
ATGATTAAGACAGTGGAGATTAATGGTAAAAAGTAAAGCTACAGATCTGGGACACAGCAGGTCAAGAG
AGATTTCCGGTCCATTACCCAGAGTACTACCGAAGCGCCAATGCCTTGATCCTCACCTATGACATTACC
TGTGAGGAATCCTTCCGTTGCCCTCCTGAGTGGCTGCGGGAGATAGAACAATATGCCAGCAACAAGGTC
ATCACTGTGTTAGTGGGCAACAAGATTGACCTGGCTGAAAGGAGAGAGGTTTCCCAGCAGCGAGCTGAA
GAATTCTCAGAAGCTCAGGACATGTATTATCTGGAGACCTCAGCCAAGGAATCTGATAATGTGGAGAAA
CTCTTCTTGACTTAGCATGCCGACTCATCAGTGAAGCCAGACAGAACACACTTGTGAACAATGTATCC
TCACCCTTACCTGGAGAAGGGAAAAGCATCAGCTATTTGACTTGTGTAATTTCAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236532  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSMEDYDFLFKIVLIGNAGVGKTCVRRFTQGLFPPGQGATIGVDFMIKTVEINGEKVKLQIWDTAGQE
RFRSITQSYRANALILTYDITCEESFRCLPEWLREIEQYASNKVITVLVGNKIDLAERREVSQQRAE
EFSEAQDMYLETSAKESDNVEKLFDLACRLISEARQNTLVNNVSSPLPGEKGSISYLTCNFN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

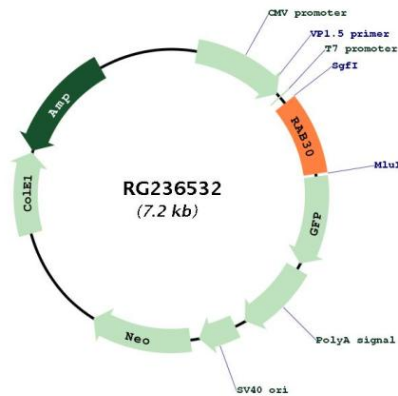


**Cloning Scheme:**


<b>ACCN:</b>	NM_001286060
<b>ORF Size:</b>	609 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>RefSeq:</b>	<a href="#">NM_001286060.2</a>
<b>RefSeq Size:</b>	9885 bp
<b>RefSeq ORF:</b>	612 bp
<b>Locus ID:</b>	27314
<b>UniProt ID:</b>	<a href="#">Q15771</a>
<b>Cytogenetics:</b>	11q14.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	23.1 kDa

**Gene Summary:**

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). Required for maintaining the structural integrity of the Golgi apparatus, possibly by mediating interactions with cytoplasmic scaffolding proteins. [UniProtKB/Swiss-Prot Function]

**Product images:**

Circular map for RG236532