

# **Product datasheet for RG226673**

## C4orf52 (SMIM20) (NM\_001145432) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Tag: TurboGFP

Symbol: C4orf52

**Synonyms:** C4orf52; MITRAC7; PNX

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG226673 representing NM\_001145432

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCCCGGAACCTGCGCACCGCGCTCATTTTCGGCGGCTTCATCTCCCTGATCGGCGCCCCCTTCTATCCCATCTACTTCCGGCCCCTAATGAGATTGGAGGAGTACAAGAAGGAACAAGCTATAAATCGGGCTGGAAT

TGTTCAAGAGGATGTGCAGCCACCAGGGTTAAAAGTGTGGTCTGATCCATTTGGCAGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG226673 representing NM\_001145432

Red=Cloning site Green=Tags(s)

MSRNLRTALIFGGFISLIGAAFYPIYFRPLMRLEEYKKEQAINRAGIVQEDVQPPGLKVWSDPFGRK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



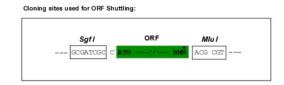
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

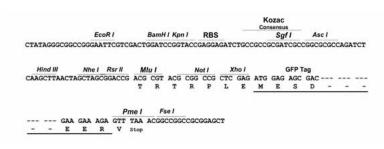
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn



### **Cloning Scheme:**





**ACCN:** NM\_001145432

ORF Size: 201 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\_001145432.1</u>, <u>NP\_001138904.1</u>

RefSeq Size: 1021 bp

RefSeq ORF: 204 bp

**Locus ID:** 389203

UniProt ID: Q8N5G0

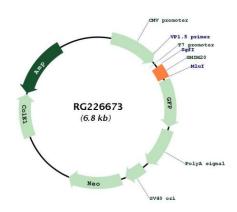
Cytogenetics: 4p15.2

Gene Summary: Component of the MITRAC (mitochondrial translation regulation assembly intermediate of

cytochrome c oxidase complex) complex, that regulates cytochrome c oxidase assembly. Promotes the progression of complex assembly after the association of MT-COI/COXI with COX4II and COX6C. Chaperone-like assembly factor required to stabilize newly synthesized

MT-COI/COXI and to prevent its premature turnover.[UniProtKB/Swiss-Prot Function]

### **Product images:**



Circular map for RG226673