

## Product datasheet for **RG220892**

### Consortin (CNST) (NM\_152609) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                 |
| Product Name:             | Consortin (CNST) (NM_152609) Human Tagged ORF Clone |
| Tag:                      | TurboGFP  |
| Symbol:                   | Consortin   |
| Synonyms:                 | C1orf71; PPP1R64                                    |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                             |
| E. coli Selection:        | Ampicillin (100 ug/mL)                              |



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**ORF Nucleotide  
Sequence:**

>RG220892 representing NM\_152609  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

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 GCTTGGATCAAGATGAAGTTGGAGGTGGCTCCTGTATTTTGTGGTCTTGTGTGCATAGCAACGGTTTT  
 CCTCAGTGTGGAGGAACTGCATTATACTGCACCTTCGGTGACATGGAGTCACTGTTTGTACTGACTTT  
 GCAGACAACATGGACTTCTATTACACTAAGTACTTCAGGGAGTGGCAGAACTGAAGCACTGGATCTACC  
 TCTCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

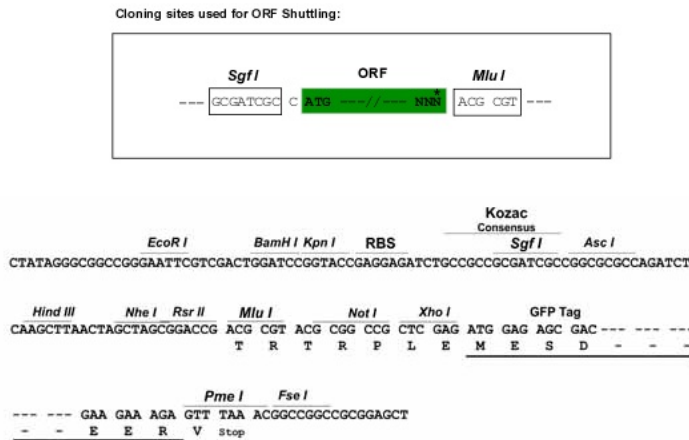
**Protein Sequence:** >RG220892 representing NM\_152609  
 Red=Cloning site Green=Tags(s)

```
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DSLSEYEDNQDDSDLLQDLSPPEASYSLQENLPSDESCLSLDDLAKRIEIAEVPVTEGLVSILKKNRNDV
GDHPAQMQHKPSKRRVRFQEIIDSLDQDEVGGGSCILLVLLCIATVFLSVGGTALYCTFGDMESPVCTDF
ADNMDFYTKLLQGVAELKHWIYLS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152609

**ORF Size:** 2175 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.

**RefSeq:** [NM\\_152609.1](#), [NP\\_689822.1](#)

**RefSeq Size:** 3608 bp

**RefSeq ORF:** 2178 bp

**Locus ID:** 163882

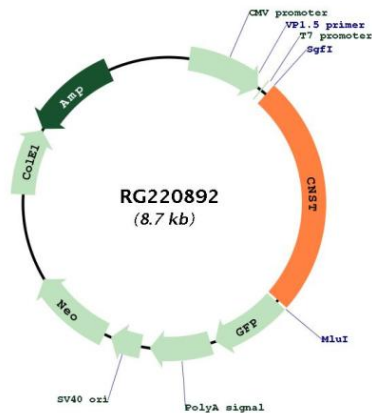
**UniProt ID:** [Q6PIW8](#)

**Cytogenetics:** 1q44

**Protein Families:** Transmembrane

**Gene Summary:** Targeting of numerous transmembrane proteins to the cell surface is thought to depend on their recognition by cargo receptors that interact with the adaptor machinery for anterograde traffic at the distal end of the Golgi complex. Consortin (CNST) is an integral membrane protein that acts as a binding partner of connexins, the building blocks of gap junctions, and acts as a trans-Golgi network (TGN) receptor involved in connexin targeting to the plasma membrane and recycling from the cell surface (del Castillo et al., 2010 [PubMed 19864490]). [supplied by OMIM, Jun 2010]

**Product images:**



Circular map for RG220892