

## Product datasheet for **RG203000**

### OVOL2 (NM\_021220) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OVOL2 (NM_021220) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OVOL2
Synonyms:	CHED; CHED1; CHED2; EUROIMAGE566589; PPCD1; ZNF339
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203000 representing NM_021220 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCAAAGTCTTCCTGGTGAAGAGGAGGAGCCTGGGGTCTCGGTCCGCAGCTGGGATGAGCTCCCGG  
ATGAGAAAAGGGCAGACACCTACATCCAGTGGGCCTAGGCCGCCTGCTCCACGACCCCCCGAGGACTG  
CCGCAGCGACGGCGGCAGCAGCGGCAGCGGCAGCAGCGCGGGGAGCCTGGAGGAGCAGAGAGC  
AGCTCGTCCCCGCACGCCCCGAGAGCGAAACCCCGAGCCGGCGACGCCGAGGGCCCCGATGGACACC  
TGGCGACCAAGCAGCGCCCGGTGCCAGATCGAAATCAAGTTCACCACAGGCACGTGCAGCGACTCGGT  
GGTTCACAGCTGTGACCTGTGTGCAAGGCTTCGTCTGCAGCGCATGCTGAACCGTCACCTCAAGTGC  
CACAACCAAGGTGAAAAGACACCTGTGCACCTTCTGCGGCAAGGGCTTCAACGACACCTTCGACCTGAAGA  
GGCAGCTCCGCACACACAGGCATTCTGTCCTACAAATGCAACGTCTGCAATAAAGCCTTCACCCAGCG  
CTGCTCTCTGGAGTCCCACCTGAAGAAAATCCATGGGGTGCAGCAGCAGTATGCCTATAAGCAGCGGCGG  
GACAAGCTCTACGTCTGCGAGGATTGCGGCTACACGGGCCCCACCCAGGAGGACCTGTACCTGCACGTGA  
ACAGTGCCCATCCGGGCAGCTCGTTTCTAAAAAGACATCTAAAAAACTGGCAGCCCTTTCGAGGGCAA  
GCTGACATCCGCACACCAAGGAGAATACCAAGCCTGAGTGAGGAGGAGGAGGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203000 representing NM\_021220  
 Red=Cloning site Green=Tags(s)

MPKVFLVKRRSLGVSVRSWDELPEKRDYIPVGLGRLLHDPEDCRSDGGSSSGSGSSSAGEPGGAES  
 SSSPHAPESETPEPGDAEGPDGHLATKQRPVARSKIKFTTGTCSDSVVHSCDLCGKGFRLQRLNRHLKC  
 HNQVKRHLCTFCGKGFNDTFDLKRHVRTHTGIRPYKCNVCNAFTQRCSESLKIKIHGVQQQYAYKQRR  
 DKLYVCEDCGYTGPTQEDLYLHVNSAHPGSSFLKKTSKKLAALLQGKLTSAHQENTSLSEEEERK

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021220

**ORF Size:** 825 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:** [NM\\_021220.4](#)

**RefSeq Size:** 1555 bp

**RefSeq ORF:** 828 bp

**Locus ID:** 58495

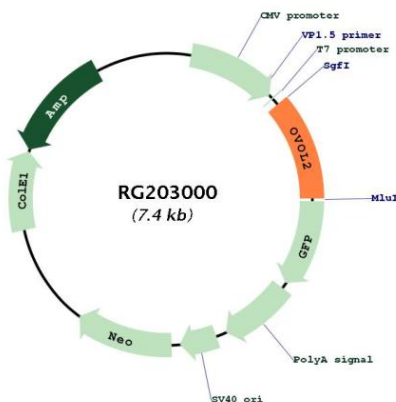
**UniProt ID:** [Q9BRP0](#)

**Cytogenetics:** 20p11.23

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a member of the evolutionarily conserved ovo-like protein family. Mammalian members of this family contain a single zinc finger domain composed of a tetrad of C2H2 zinc fingers with variable N- and C-terminal extensions that contain intrinsically disordered domains. Members of this family are involved in epithelial development and differentiation. Knockout of this gene in mouse results in early embryonic lethality with phenotypes that include neurectoderm expansion, impaired vascularization, and heart anomalies. In humans, allelic variants of this gene have been associated with posterior polymorphous corneal dystrophy. [provided by RefSeq, Apr 2016]

## Product images:



Circular map for RG203000