

## Product datasheet for **RG222868**

### UNG (NM\_080911) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UNG (NM\_080911) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** UNG  
**Synonyms:** DGU; HIGM4; HIGM5; UDG; UNG1; UNG2; UNG15  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG222868 representing NM\_080911  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCGGCCAGAAGACGCTCTACTCCTTTTTCTCCCCAGCCCCGCCAGGAAGCGACACGCCCCAGCC  
CCGAGCCGGCCGTCCAGGGGACCGCGTGGCTGGGGTGCCTGAGGAAAGCGGAGATGCGGCGCCATCCC  
AGCCAAGAAGGCCCGGCTGGGCAGGAGGAGCCTGGGACGCCCTCCTCGCCGCTGAGTGCCGAGCAG  
TTGGACCGGATCCAGAGGAACAAGGCCGCGGCCCTGCTCAGACTCGGGCCCGCAACGTGCCCGTGGCT  
TTGGAGAGAGCTGGAAGAAGCACCTCAGCGGGGAGTTCGGGAAACCGTATTTTATCAAGTAATGGGATT  
TGTTGCAGAAGAAAGAAAGCATTACACTGTTTATCCACCCACACCAAGTCTTACCTGGACCCAGATG  
TGTGACATAAAAGATGTGAAGTTGTCATCCTGGGACAGGATCCATATCATGGACCTAATCAAGCTCACG  
GGCTCTGCTTTAGTGTTCAAAGGCTGTTCCGCCTCCGCCAGTTTGGAGAACATTTATAAAGAGTTGTC  
TACAGACATAGAGGATTTTGTTCATCCTGGCCATGGAGATTTATCTGGGTGGGCCAAGCAAGGTGTTCTC  
CTTCTCAACGCTGTCTCACGGTTCGTGCCATCAAGCCAACCTCATAAGGAGCGAGGCTGGGAGCAGT  
TCACTGATGCAGTTGTCTGGCTAAATCAGAACTCGAATGGCCTTGTCTTCTGCTCTGGGCTCTTA  
TGCTCAGAAGAAGGCCAGTGCCATTGATAGGAAGCGGCACCATGTAACAGACGGCTCATCCCTCCCCT  
TTGTCAGTGTATAGAGGTTCTTTGGATGTAGACACTTTTCAAAGACCAATGAGCTGCTGCAGAAGTCTG  
GCAAGAAGCCCATTTGACTGGAAGGAGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222868 representing NM\_080911  
Red=Cloning site Green=Tags(s)

MIGQKTLYSFFSPSPARKRHAPSPEPAVQGTGVAGVPEESGDAAAIPAKKAPAGQEEPPTPPSSPLSAEQ  
 LDRIQRNKAALLRLAARNVPVGFGEWKKHLSGEFGKPYFIKLMGFVAEERKHYTVYPPPHQVFTWTQM  
 CDIKDVKVVILGQDPYHGPNQAHLGCFVSVQRPVPPPSLENIYKELSTDIEDFVHPGHGDLSGWAKQGVL  
 LLNAVLTVRAHQANSHKERGWEQFTDAVVSWLNQNSNGLVLLWGSYAQKKGSAIDRKRHHVLQTAHPSP  
 LSVYRGGFFGCRHFSKTNELLQKSGKKPIDWKEL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080911

**ORF Size:** 939 bp

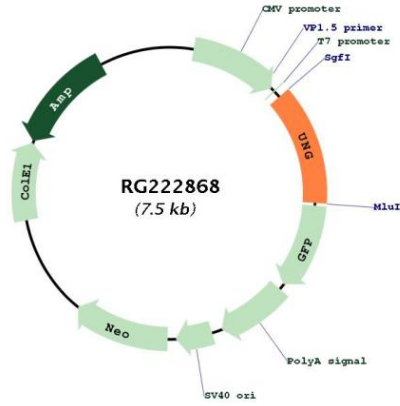
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_080911.3</a>
<b>RefSeq Size:</b>	2053 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	7374
<b>UniProt ID:</b>	<a href="#">P13051</a>
<b>Cytogenetics:</b>	12q24.11
<b>Domains:</b>	UDG
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Base excision repair, Primary immunodeficiency
<b>Gene Summary:</b>	This gene encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving the N-glycosylic bond and initiating the base-excision repair (BER) pathway. Uracil bases occur from cytosine deamination or misincorporation of dUMP residues. Alternative promoter usage and splicing of this gene leads to two different isoforms: the mitochondrial UNG1 and the nuclear UNG2. The UNG2 term was used as a previous symbol for the CCNO gene (GeneID 10309), which has been confused with this gene, in the literature and some databases. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG222868