

## Product datasheet for **RG221784**

### OGG1 (NM\_016826) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OGG1 (NM_016826) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OGG1
Synonyms:	HMMH; HOGG1; MUTM; OGH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221784 representing NM_016826 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCCCGCGCTTCTGCCAGGCGCATGGGGCATCGTACTCTAGCCTCCACTCCTGCCCTGTGGG  
CCTCCATCCCGTGCCTCGCTCTGAGCTGCGCCTGGACCTGGTTCTGCCTTCTGGACAATCTTCCGGTG  
GAGGGAGCAAAGTCTGCACACTGGAGTGGTGTACTAGCGGATCAAGTATGGACTGACTCAGACTGAG  
GAGCAGCTCCACTGCACTGTGTACCGAGGAGACAAGGCCAGGCTAGCAGGCCACACCAGACGAGCTGG  
AGGCCGTGCGCAAGTACTTCCAGCTAGATGTTACCTGGCTCACTGTATCACCCTGGGTTCCGTGGA  
CTCCACTTCCAAGAGGTGGCTCAGAAATTCGAAGGTGTGCGACTGCTGCGACAAGACCCATCGAATGC  
CTTTTCTTTTTATCTGTTCTCCAACAACAACATCGCCCGCATCACTGGCATGGTGGAGCGGCTGTGCC  
AGGCTTTTGGACCTCGGCTCATCCAGCTTGATGATGTCACCTACCATGGCTTCCCAGCCTGCAGGCCCT  
GGCTGGGCCAGAGGTGGAGGCTCATCTCAGGAAGCTGGGCTGGGCTATCGTGCCCGTTACGTGAGTGCC  
AGTGCCCGAGCCATCCTGGAAGAACAGGGCGGGCTAGCCTGGCTGCAGCAGCTACGAGAGTCCATATG  
AGGAGGCCACAAGGCCCTCTGCATCCTGCCTGGAGTGGGCACCAAGGGCCTCCTGGCAATGCATTTGA  
TGGCCACCAGCTTCTGCGTCTCTTATCTTCTGCCAGGATCACCTCCGAGAAGGCCCCCTATCGGGAGA  
GGGATTACAAGGTGAAGAAGTGAAGCCAGCTTCCCTCCAGCCTCTCCTCCATGCCATGGGTTCT  
GTGACCACTGCTGGACCAAGGACGTGGATGACCCTCCCTAGTCACTCATCCATCCCTGGCTCCAGAGA  
TGGTCACATGACCCAGGCTGGCCAGTCAAAGTAGTCTCTCCCTGGCCACAGTAATTGGTCATGTGATG  
CAAGCCAGCTTACTAGCACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**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\\_016826.2](#), [NP\\_058434.1](#)

**RefSeq Size:** 1909 bp

**RefSeq ORF:** 1074 bp

**Locus ID:** 4968

**UniProt ID:** [O15527](#)

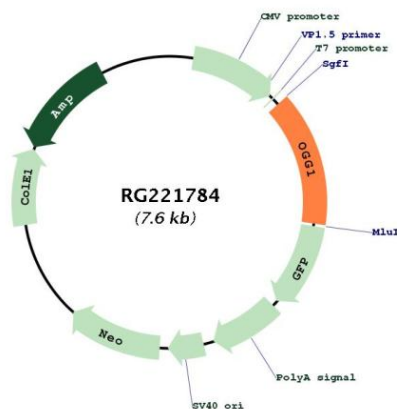
**Cytogenetics:** 3p25.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Base excision repair

**Gene Summary:** This gene encodes the enzyme responsible for the excision of 8-oxoguanine, a mutagenic base byproduct which occurs as a result of exposure to reactive oxygen. The action of this enzyme includes lyase activity for chain cleavage. Alternative splicing of the C-terminal region of this gene classifies splice variants into two major groups, type 1 and type 2, depending on the last exon of the sequence. Type 1 alternative splice variants end with exon 7 and type 2 end with exon 8. All variants share the N-terminal region in common, which contains a mitochondrial targeting signal that is essential for mitochondrial localization. Many alternative splice variants for this gene have been described, but the full-length nature for every variant has not been determined. [provided by RefSeq, Aug 2008]

### Product images:



Circular map for RG221784