

Product datasheet for **MG227443**

Ogg1 (NM_010957) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ogg1 (NM_010957) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Ogg1 |
| Synonyms: | Mmh |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG227443 representing NM_010957 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTATCCGTTCTGGCTGCCTAGCAGCATGAGACATCGCACCCCTAAGCTCCAGCCCGGCCCTCTGGG
CCTCTATCCCGTGTCCACGCTCTGAGCTGCGTCTGGACTTGGTTTTAGCTTCTGGACAGTCTTCCGGT
GAAGGAGCAGAGCCCTGCTCACTGGAGTGGCGTCTGGCAGATCAAGTATGGACTGACTCAGACGGAG
GACCAGCTCTATTGCACTGTGTACCGAGGAGACGACAGCCAGGTCAGCAGGCCACCCCTAGAGGAGCTGG
AAACCCTACACAAGTACTTTTCAGCTAGATGTCAGCCTGGCACAGCTGTATAGCCACTGGGCTTCTGTAGA
CTCCCACTTCCAAGAGTGGCCAGAAATTCGAAGGTGTGAGACTGCTGAGACAAGACCCCACTGAGTGC
CTTTTCTCTTTCATCTGTTCTCTCAACAACAACATTGCTCGCATTACTGGCATGGTGAACGGCTCTGCC
AGGCCTTTGGACCTCGACTCATTGAGCTTGTATGATGTCACCTTATCATGGCTTCCCAAACCTCCATGCCCT
GGCTGGTCCAGAAGCAGAGACTCACCTGAGGAAGTTGGGCTGGGGTACCGTGCCCGCTATGTACGTGCC
AGTGCCAAAGCCATCCTCGAAGAGCAAGGTGGCCAGCTTGGCTGCAGCAGCTTCGAGTGGCCCTTATG
AAGAGGCCCAAGGCCCTCTGCACCCTGCCGGGGTGGCGCCAAGGTGGCTGACTGCATCTGCTTAAT
GGCCCTTGACAAACCCAGGCTGTGCCCGTGGATGTCCATGTATGGCAGATTGCCATCGTGACTACGGC
TGGCATCTAAGACATCCAGGTAAGGGCCCGAGCCCTTTGGCCAACAAGAAGTGGAAACTTTTTTC
GGAATCTGTGGGACCTTATGCTGGCTGGGCCCAAGCAGTGTCTGTTCAAGTGTGACCTTCGCCAACCAAG
CCTGTCTCGGGAGCCACCAGCAAAGCGCAAAAAGGGATCTAAGAGGCCAGAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227443 representing NM_010957
 Red=Cloning site Green=Tags(s)

MLFRSWLPSSMRHRTLSSSPALWASIPCPRELRDLVLSAGQSFWRKEQSPAHWGVLADQVWTLTQTE
 DQLYCTVYRGDDSQVSRPTLEELTLHKYFQLDVSLAQLYSHWASVDSHFQRVAQKFQGVRLLRQDPTEC
 LFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVTYHGFPNLHALAGPEAETHLRKLGLYRARIYVRA
 SAKAILEEQGGPAWLQQLRVAPYEEAHKALCTLPGVGAKVADCI CLMALDKPQAVPVDVHVWQIAHRDYG
 WHPKTSQAKGPSPLANKELGNFRNLWGPYAGWAQAVLFSADLRQPSLSREPPAKRKKGSKRPEG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010957

ORF Size: 1035 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_010957.4](#), [NP_035087.3](#)

RefSeq Size: 1556 bp

RefSeq ORF: 1038 bp

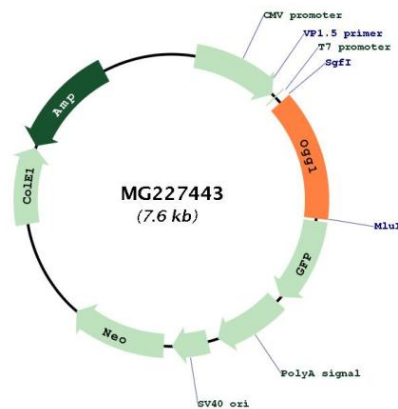
Locus ID: 18294

UniProt ID: [O08760](#)

Cytogenetics: 6 52.75 cM

Gene Summary: DNA repair enzyme that incises DNA at 8-oxoG residues. Excises 7,8-dihydro-8-oxoguanine and 2,6-diamino-4-hydroxy-5-N-methylformamidopyrimidine (FAPY) from damaged DNA. Has a beta-lyase activity that nicks DNA 3' to the lesion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227443