

## Product datasheet for **RG210477**

### NUDT15 (NM\_018283) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NUDT15 (NM\_018283) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NUDT15  
**Synonyms:** MTH2; NUDT15D  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210477 representing NM\_018283  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACGGCCAGCGCACAGCCGCGGGCGGGCCAGGAGTCGGAGTCGGAGTCGTGGTGACCAGCTGCA  
 AGCATCCGCGTTGCGTCCTCTGGGAAGAGAAAGGCTCGGTTGGAGCTGGCAGTTTCCAACCTCCCTGG  
 AGGTCACTGGAGTTCGGTGAACCTGGGAAGAATGTGCTCAAAGGAAACCTGGGAAGAAGCAGCTCTT  
 CACCTGAAAAATGTTCACTTTCCTCAGTTGTGAATCTTTCATTGAGAAGGAGAATTACCATTATGTTA  
 CTATATTAATGAAAGGAGAAGTGGATGTGACTCATGATTCAGAACCAAGAATGTAGAGCCTGAAAAAA  
 TGAAGTTGGGAGTGGGTTCCCTTGGGAAGAACTGCCTCCCTGGACCAGCTTTTCTGGGGACTGCCTGT  
 TTAAGAACAAGGCTATGATCCATTTAAGAAGATCTGAACCATCTGGTGGGATACAAAGGAAATCATC  
 TC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG210477 representing NM\_018283  
 Red=Cloning site Green=Tags(s)

MTASAQPRRRPGVGVGVVVTSCKHPRCVLLGKRKGSVAGSFLPGGHLEFGETWEECAQRETWEEAAL  
 HLKNVHFASVVNSFIEKENYHYVTILMKGEVDVTHDSEPKNVEPEKNESWEWVPWEELPLDQLFWGLRC  
 LKEQGYDPFKEDLNHLVGYKGNHL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_018283

ORF Size: 492 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.

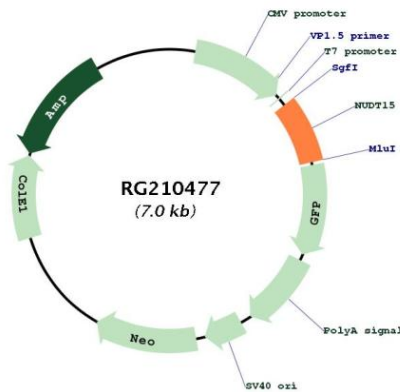
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_018283.1, NP\\_060753.1](#)  
**RefSeq Size:** 2022 bp  
**RefSeq ORF:** 495 bp  
**Locus ID:** 55270  
**UniProt ID:** [Q9NV35](#)  
**Cytogenetics:** 13q14.2  
**Domains:** NUDIX

**Gene Summary:** This gene encodes an enzyme that belongs to the Nudix hydrolase superfamily. Members of this superfamily catalyze the hydrolysis of nucleoside diphosphates, including substrates like 8-oxo-dGTP, which are a result of oxidative damage, and can induce base mispairing during DNA replication, causing transversions. The encoded enzyme is a negative regulator of thiopurine activation and toxicity. Mutations in this gene result in poor metabolism of thiopurines, and are associated with thiopurine-induced early leukopenia. Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Apr 2016]

**Product images:**



Circular map for RG210477