

## Product datasheet for **MG216453**

### Nsd3 (NM\_001081269) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Nsd3 (NM_001081269) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP   |
| Symbol:                   | Nsd3   |
| Synonyms:                 | 6720429E03; A530023P05; AI528490; WHIS; WHISTLE; Whsc1; Whsc111                |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >MG216453 representing NM_001081269<br>Red=Cloning site Blue=ORF Green=Tags(s) |

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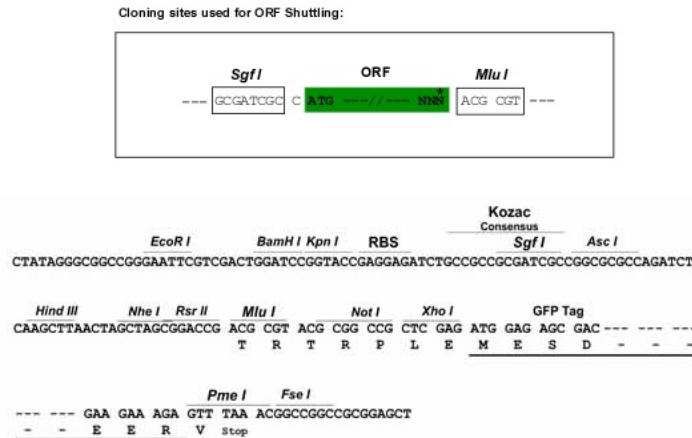
Protein Sequence: >MG216453 representing NM\_001081269  
 Red=Cloning site Green=Tags(s)

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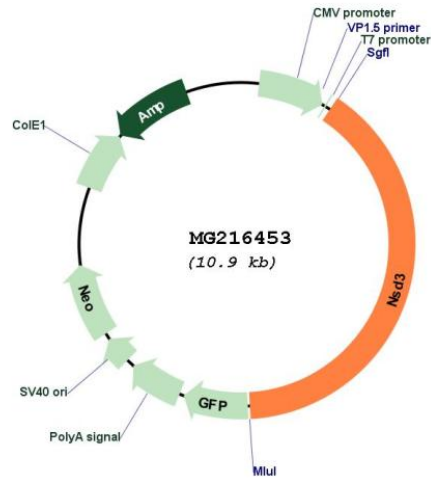
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



**ACCN:** NM\_001081269

**ORF Size:** 4338 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\\_001081269.2](#), [NP\\_001074738.1](#)

**RefSeq Size:** 9945 bp

**RefSeq ORF:** 4341 bp

**Locus ID:** 234135

**Cytogenetics:** 8 A2

**Gene Summary:** This gene encodes a member of the SET domain family of histone lysine N-methyltransferase proteins. This protein methylates histone H3 at lysine residues 4 and 27, which represses gene transcription. It acts in opposition to the histone demethylase Jmjd1c. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2015]