

## Product datasheet for **RG218678**

### INMT (NM\_006774) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	INMT (NM_006774) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INMT
Synonyms:	TEMT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218678 representing NM_006774 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGGTGGCTTCACTGGGGTGATGAGTACCAGAAGCACTTCTGCCAGGGACTACTTGGCTACTT  
ACTACAGCTTCGATGGCAGCCCCACCCGAGGCCGAGATGCTGAAGTTAACTTGGATGTCTCCACAA  
GACCTTCGGCCCTGGAGGCCTCAAGGGGACACGCTGATTGACATTGGCTCAGGTCTACCATCTACCAA  
GTTCTTGCTGCCTGTGATTCCTTCCAAGACATCACTCTCTCCGACTTTACCGACCGCAACCGGGAGGAGC  
TGGAAAAGTGGCTGAAGAAGGAGCCGGGGCCTATGACTGGACCCAGCGGTGAAATTCGCCTGTGAGCT  
GGAAGGAAACAGCGGCCGATGGGAGGAGAAGGAGGAGAAGCTGCGGGCAGCGGTGAAGCGGGTGCTCAAG  
TGCGATGTCCACCTGGGCAACCCGCTGGCCCCGGCTGTGTTGCCTCTCGCCGACTGTGTGCTCACCTGCT  
TGGCCATGGAGTGTGCCTGCTGTAGCCTTGATGCCTACCGCGCTGCCCTGTGCAACCTTGCTCACTGCT  
CAAGCCGGGTGGCCACCTGGTGACCACTGTACGCTTCGGCTCCCGTCTACATGGTGGGAAGCGTGAA  
TTTTCTGCGTGGCCCTGGAGAAAGAGGAGGTGGAGCAGGCTGTCTGGATGCTGGCTTTGACATTGAAC  
AGCTCTACACAGTCCCCAGAGCTACTGTACCAATGCTGCCAACAATGGGGTCTGCTTCATTGTGGC  
TCGCAAGAAGCCTGGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218678 representing NM\_006774  
Red=Cloning site Green=Tags(s)

MKGGFTGGDEYQKHFLPRDYLATYYSFDGSPSPEAEMLKFNLECLHKTFGPGGLQGDTLIDIGSGPTIYQ  
 VLAACDSFQDITLSDFTRNREELEKWLKKEPGAYDWPVKFACELEGNSGRWEEKEEKLRAAVKRVLK  
 CDVHLGNPLAPAVLPLADCYLTLAMECACCSLDAYRAALCNLASLLKPGGHLVTTVTLRLPSYVMVGKRE  
 FSCVALEKEEVEQAVLDAGFDIEQLLHSPQSYSVTNAAANGVCFIVARKKPGP

TRTRPLE - GFP Tag - V

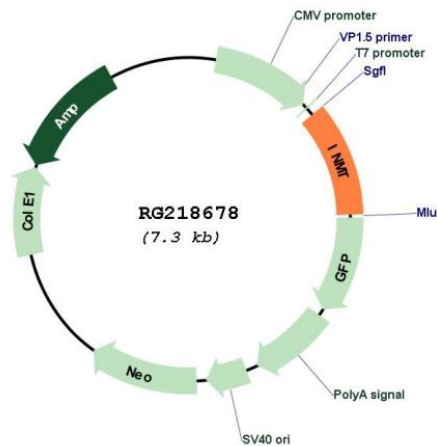
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_006774

**ORF Size:** 789 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_006774.5</a>
<b>RefSeq Size:</b>	2639 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	11185
<b>UniProt ID:</b>	<a href="#">O95050</a>
<b>Cytogenetics:</b>	7p14.3
<b>Protein Pathways:</b>	Tryptophan metabolism
<b>Gene Summary:</b>	N-methylation of endogenous and xenobiotic compounds is a major method by which they are degraded. This gene encodes an enzyme that N-methylates indoles such as tryptamine. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream MINDY4 (aka FAM188B) gene. In rodents and other mammals such as cetartiodactyla this gene is in the opposite orientation compared to its orientation in human and other primates and this gene appears to have been lost in carnivora and chiroptera. [provided by RefSeq, Jul 2019]