

## Product datasheet for **RG223478**

### Dopamine Receptor D3 (DRD3) (NM\_033663) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Receptor D3 (DRD3) (NM_033663) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DRD3
Synonyms:	D3DR; ETM1; FET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223478 representing NM_033663 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCATCTCTGAGTCAGCTGAGTAGCCACCTGAACTACACCTGTGGGCAGAGAACTCCACAGGTGCCA  
GCCAGGCCGCCACATGCCTACTATGCCCTCTCCTACTGCGCGCTCATCCTGGCCATCGTCTTCGGCAA  
TGGCCTGGTGTGCATGGCTGTGCTGAAGGAGCGGGCCCTGCAGACTACCACCACTACTTAGTAGTGAGC  
CTGGCTGTGGCAGACTTGTGGTGGCCACCTTGGTGATGCCCTGGGTGGTATACCTGGAGGTGACAGGTG  
GAGTCTGGAATTCAGCCGATTTGCTGTGATGTTTTGTACCCTGGATGTCATGATGTGTACAGCCAG  
CATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAGTGGTCATGCCCGTTCACTACCAGCAT  
GGCAGGGACAGAGCTCCTGTGCGCGCGTGGCCCTCATGATCACGGCCGTCTGGGTACTGGCCTTTGCTG  
TGTCTGCCCTCTTCTGTTGGCTTTAATACCACAGGGGACCCCACTGTCTGCTCCATCTCCAACCTGA  
TTTTGTACTACTCTTCAAGTGGTGTCTTCTACCTGCCCTTTGGAGTGACTGTCCTTGTCTATGCCAGA  
ATCTATGTGGTGTGAAACAAAGGAGACGAAAAGGATCCTCACTCGACAGAAGCAGTCAAGCAACAGTG  
TCAGGCCCTGGCTCCCCAACAAACCTCTCTCCTGACCCGGCACATCTGGAGCTGAAGCGTTACTACAG  
AAGACTCGGAATCCCTGATGCCACTTCGGGAGAAGAAGCAACCCAAATGGTGGCCATTGTGCTTGGGG  
CCTTCATTGTCTGCTGGCTGCCCTTCTTCTGACCCATGTTCTCAATACCACTGCCAGACATGCCACGT  
GTCCCCAGAGCTTTACAGTGCCACGACATGGCTGGGCTACGTGAATAGCGCCCTCAACCTGTGATCTAT  
ACCACCTCAATATCGAGTTCGGAAAGCCTTCTCAAGATCCTGTCTTGC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223478 representing NM\_033663  
 Red=Cloning site Green=Tags(s)

MASLSQLSSHLNYTCGAENSTGASQARPHAYYALSYCALILAIVFGNGLVCMAVLKERALQTTTNYLVVS  
 LAVADLLVATLVMPWVVYLEVTGGVWNFSRICCDVFTLDVMMCTASILNLCASIDRYTAVVMPVHYQH  
 GTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTVCSISNPDFVIYSSVVSFYLPFGVTVLYAR  
 IYVVLKQRRRKILTRQNSQCNSVRPGFPQQTLSPPDAHLELKRYYSICQDTALGGPGFQERGGELKREE  
 KTRNSLMPLREKKATQMVAIVLGAFIVCWLPFFLTHVLNTHCQTHVSPELYSATWLGYNLSALNPVIY  
 TTFNIEFRKAFKILSC

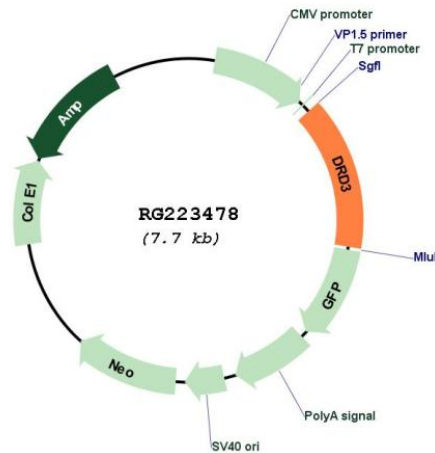
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_033663

<b>ORF Size:</b>	1101 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_033663.2</a> , <a href="#">NP_387512.2</a>
<b>RefSeq Size:</b>	1398 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	1814
<b>UniProt ID:</b>	<a href="#">P35462</a>
<b>Cytogenetics:</b>	3q13.31
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	This gene encodes the D3 subtype of the five (D1-D5) dopamine receptors. The activity of the D3 subtype receptor is mediated by G proteins which inhibit adenylyl cyclase. This receptor is localized to the limbic areas of the brain, which are associated with cognitive, emotional, and endocrine functions. Genetic variation in this gene may be associated with susceptibility to hereditary essential tremor 1. Alternative splicing of this gene results in transcript variants encoding different isoforms, although some variants may be subject to nonsense-mediated decay (NMD). [provided by RefSeq, Jul 2008]