

## Product datasheet for **MG216724**

### Degs2 (NM\_001171002) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Degs2 (NM_001171002) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Degs2
Synonyms:	2210008A03Rik; AI852933; DES2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216724 representing NM_001171002 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTAATAGCGCGCCCGCAGCGACTTCGAGTGGGTCTACAGCGACCAGCCGCACACCCAGAGGCGCA  
AGGAGATGCTCGCCAAGTACCCAGCCATCAAGGCCCTGATGCGGCCAGACCCTCACATCAAGTGGACTGT  
GTCGGGAATGGTACTGGTTCAGGTGCTGGCCTGCTGGTTAGTACGGGGACTCTCTGGCGATGGCTGCTA  
TTTTGGGCTATGCCTTTGGTGGCTGCATCAACCACTCGCTGACACTGGCCATCCATGACATCTCGACA  
ATACTGCCTTTGGCACAAGTTGTGTCTCCCGAAACCGCTGGTTTGCCATCTTTGCTAATCTGCCATTGG  
CCTACCTTACGCTACATCCTTCAAAAAGTACCATGTGGACCACCATCGTTACCTGGGTGGAGACGGGCTG  
GATGTGGATATTCTACGAACCTTCGAGGGCTGGTCTTCTGCACGCCGCCCGCAAGCTGCTCTGGCTGG  
TGCTTCAGCCTTTCTTCTATTCACTAAGGCCTCTCTGTGTGAACCCCAAGGTAGTGACACGTATGGAGAT  
CCTCAACGCCCTGGTGCAGCTAGCATTGATGTACCATCTTTGCCCTCTGGGGATCAAGCCCATAGTC  
TACCTTAGGCAGCAGCCTCCTGGTCTGGCCTGCACCCTATCTCTGGTCACTTTGTGGCTGAGCATT  
ATATGTTCTGAAGGCCACGAGACTTACTCCTACTATGGACCCCTCAATTGGATCACCTCAATGTGGG  
TTACCACATGGAACACCAGACTTCCCCAGTATCCCCGGTTACTACCTGCCACTGGATGACTGGAACCCA  
GTGAGAAGAGATGTGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216724 representing NM\_001171002  
 Red=Cloning site Green=Tags(s)

MGNSAARSDFEWVYSDQPHTRRRKEMLAKYPAIKALMRDPHIKWTVSGMVLVQVLACWLVRGLSWRWLL  
 FWAYAFGGCINHSLTLAIHDISHNTAFGTSCVSRNRWFAIFANLP IGLPYATSFKYYHVDHHRYLGGDGL  
 DVDIPTNFEGWFFCTPARKLLWLVLQPFYSLRPLCVNPKVVTRMEILNALVQLAFDVTIFALWGIKPIV  
 YLLGSSLLGLGLHPISGHFVAEHYMF LKGHETYSYYGPLN WITFNVGYHMEHDFPSIPGYLPLDDWNP  
 VRRDVL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

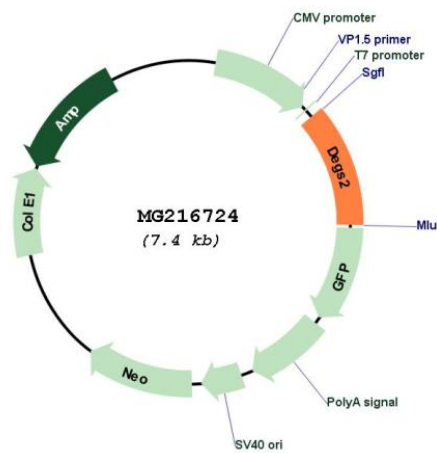
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001171002

**ORF Size:** 858 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_001171002.1</a> , <a href="#">NP_001164473.1</a>
<b>RefSeq Size:</b>	3185 bp
<b>RefSeq ORF:</b>	861 bp
<b>Locus ID:</b>	70059
<b>UniProt ID:</b>	<a href="#">Q8R2F2</a>
<b>Cytogenetics:</b>	12 F1
<b>Gene Summary:</b>	Bifunctional enzyme which acts as both a sphingolipid delta(4)-desaturase and a sphingolipid C4-monooxygenase.[UniProtKB/Swiss-Prot Function]