

## Product datasheet for **MC207377**

### Resp18 (NM\_009049) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Resp18 (NM\_009049) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Resp18  
**Synonyms:** AI851012  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207377 representing NM\_009049  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCAGAGTTCGTTAAAGCCCGGGCTCCGGCATCTTCAGCTACTGGTCTGCTTCCTTCTGCTTTACA  
GTCGTCCAGGCAGCTGCAGCGACATAAACGCCACGATGGTCAGGGCCAAGTGGGATCGGAACAGCTCTG  
GACATTCCAAGGACTTATTGCTTCAGTCTCCAGTACTTACAATTATATCCACCAGATTGTACCCGAA  
GGCATGTTCTGGCAGATGACATAGCCTATGAGTTAATGACCAAAAAGGTGGAGCACCTCAGCAGACTCC  
ACCCCCAGTATCCATGCAGGAAGGATATGAAGGAGTTTCCCCACGGCAACCGCTGGGGTGAGGAGCAA  
GCAAGAGGAGAACTTCAACTCTATCTCCCCAAAAGAGTCCAACAGTCAAGGTGAACAGGGACCGATGC  
TTTACCACCAAAGTAATCCCAAAGGCCACCAACAAGAGGCCACCCATCTACCAAGGGTTTCTTTGGGC  
CATTCCCCACTGTGGCCTCAACCTTGTGCTGACT**G**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_009049  
**Insert Size:** 528 bp  
**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<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>	<u>NM_009049.1, NP_033075.1</u>
<b>RefSeq Size:</b>	710 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	19711
<b>UniProt ID:</b>	<u>P47939</u>
<b>Cytogenetics:</b>	1 C4
<b>Gene Summary:</b>	<p>This gene encodes a secreted protein that is expressed mainly in the peripheral endocrine and neuroendocrine tissues and is regulated by physiological factors that include blood glucose and dopaminergic drugs. The encoded protein is found in the lumen of the endoplasmic reticulum and is degraded in the post-ER pre-Golgi compartment. Gene knockout experiments in mice demonstrate that this gene is essential for embryonic development with embryonic lethality occurring before embryonic day 9.5. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>