

## Product datasheet for **MC227077**

### Calcoco2 (NM\_001271018) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Calcoco2
Synonyms:	2410154J16Rik; C77254; Ndp52; Ndp52l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227077 representing NM_001271018 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGACCAGTGCCCATACCTACCTTGCTGGAACATGGCAACTTCTCTCAGGTCTGTTTAACAATGTGG  
AGAAGTTCTATGCTCCTAGAGGAGATATCATGTGCTATTACACCCTCACTGAAAAGTTCATCCCTCGACG  
CAAGGACTGGATTGGCATCTTTAAAGTAGGGTGGGAAGACCCTCAGGAGTATTATACCTTCATGTGGCT  
CCCTTGCCAAAAGACAAAACAAGGATTCAGCCACACAGCAGGAAATCCAATTCAAAGCTTATTACCTTC  
CCAAGGATGTGGAGCGCTACCAAGTTCTGCTATGTGGATGAAGATGGTTTAGTCCGGGGAACAAGTGTC  
TTTCCAGTTTTGTCCAGACCCTGACGAGGACATAATGGTTGTTATCAATAAGGAAAAGGTAGAAGAGATG  
GAACAGCTCAGTGAGGAGCTTTACCAACAAAACCAGGAGCTGAAAGACAAGTACGCTGACCTCCATGAGC  
AGCTACAGAGGAAGCAGGTGGCACTGGAAGCAACACAGAGGGTCAATAAGACCTTAGAACACAAAAGTGA  
AGAGAAGGCCTCCTGGGAGAAAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGA  
GCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCT  
GGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGA  
AGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAG  
GCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCT  
GGGAGAAAAGAGAAGGCCCTGGGAGGTAGAGAAGGCCCTTGAAGGAAGTGAAGGCCTATTGGTGGAA  
TGATCTGCACCGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



<b>ACCN:</b>	NM_001271018
<b>Insert Size:</b>	996 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001271018.1</a></u> , <u><a href="#">NP_001257947.1</a></u>
<b>RefSeq Size:</b>	2029 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	76815
<b>UniProt ID:</b>	<u><a href="#">A2A6M5</a></u>
<b>Cytogenetics:</b>	11 59.4 cM

**Gene Summary:**

Xenophagy-specific receptor required for autophagy-mediated intracellular bacteria degradation (By similarity). Acts as an effector protein of galectin-sensed membrane damage that restricts the proliferation of infecting pathogens upon entry into the cytosol by targeting LGALS8-associated bacteria for autophagy (By similarity). Initially orchestrates bacteria targeting to autophagosomes and subsequently ensures pathogen degradation by regulating pathogen-containing autophagosome maturation (By similarity). Bacteria targeting to autophagosomes relies on its interaction with MAP1LC3A, MAP1LC3B and/or GABARAPL2, whereas regulation of pathogen-containing autophagosome maturation requires the interaction with MAP3LC3C (By similarity). May play a role in ruffle formation and actin cytoskeleton organization and seems to negatively regulate constitutive secretion (By similarity).[UniProtKB/Swiss-Prot Function]