

## Product datasheet for MC211781

### Calcoco2 (NM\_001100177) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calcoco2 (NM_001100177) Mouse Untagged Clone
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:	>MC211781 representing NM_001100177 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGACCACTGCCCCATACCTACCTTGCTGGAACATGGCAACTTCTCTCAGGTCCTGTTTAACAATGTGG  
AGAAGTTCTATGCTCCTAGAGGAGATATCATGTGCTATTACACCCTCACTGAAAAGTTTCCTCGACG  
CAAGGACTGGATTGGCATCTTTAAAGTAGGGTGAAGACCACTCAGGAGTATTATACCTTCATGTGGGCT  
CCCTTGCCAAAAGACCAAAACAAGGATTCAGCCACACAGCAGGAAATCCAATTCAAAGCTTATTACCTTC  
CCAAGGATGTGGAGCGCTACCAGTTCTGCTATGTGGATGAAGATGGTTTAGTCCGGGGAACAAGTGTCCC  
TTTCCAGTTTGTCCAGACCCTGACGAGGACATAATGGTTGTTATCAATAAGGAAAAGGTAGAAGAGATG  
GAACAGCTCAGTGAGGAGCTTTACCAACAAAACCAGGAGCTGAAAGACAAGTACGCTGACCTCCATGAGC  
AGCTACAGAGGAAGCAGGTGGCACTGGAAGCAACACAGAGGGTCAATAAGACCTTAGAACACAAAGTGA  
AGAGAAGGCCTCCTGGGAGAAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGGAAGAGAAG  
GCCTCCTGGGAGGAAGAGAAGGCCTCCTGGGAGAAAGAGAAGGCCTCCTGGGAGGAAGAGAAGGCCTCCT  
GGGAGAAAGAGAAGGCCCTGGGAGGTAGAGAAGGCCCTGGAAGGAAGTGAAGGCCTATTGGTGA  
TGATCTGCACCG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001100177
Insert Size:	786 bp


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<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>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>NM_001100177.1, NP_001093647.1</u>
<b>RefSeq Size:</b>	1409 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	76815
<b>Cytogenetics:</b>	11 59.4 cM
<b>Gene Summary:</b>	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]