

## Product datasheet for **RN204753**

### Tollip (NM\_001109668) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tollip (NM\_001109668) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tollip  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN204753 representing NM\_001109668  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCGACCACCGTCAGCACGCAGCGCGGGCCGGTATACATTGGTGAGCTCCCCCAGGACTTTCTCCGTA  
TAACGCCACACAGCAGCAGCAGATACAGCTGGATGCCAGGCAGCCAGCAGCTGCAGTATGGAGG  
AGCAGTTGGCACTGTGGTTCGTCTCAGCATCACTGTAGTACAGGCCAAATTGGCAAAGAATTATGGCATG  
ACTCGTATGGACCCTTACTGCCGCTGCGTCTGGGCTATGCTGTTTATGAACTCCACAGCACACAATG  
GCGCCAAGAACCCTCGATGGAACAAGGTTATTCAGTGCACAGTGCCCCCAGGTGTGGACTCGTTCTACCT  
TGAGATCTTCGATGAGCGAGCCTTCTCCATGGACGACCGCATAGCTTGGACCCACATCACTATCCCCGAG  
TCCCTGAAGCAGGGCCAAGTGGAGGACGAGTGGTATAGCCTGAGTGGGAGGCAGGGCGACGACAAGGAGG  
GCATGATTAACCTGGTCATGTCCATACGTCCTTCCAGCTGCCATGATGATGCCGCTCAGCCTGTGGT  
TCTGATGCCAAGTGTGTACCAGCAGGGTGTGGCTATGTGCCATTGCAGGGATGCCTGCTGTCTGCAGC  
CCTGGCATGGTGCCTATGGCTATGCCCCACCAGCTGTGGCTCCTCAGCCCCGCTGTAATGAGGAGGACC  
TCAAGGCTATCCAGGACATGTTTCCAACATGGACAGGGAAGTAATCCGTTCTGTGCTTGAAGCCAAAG  
AGGGAACAAGATGCTGCCATCAACTCCTTACTGCAAATGGGCGAAGAGTCC**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001109668  
**Insert Size:** 825 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>RefSeq:</b>	<a href="#">NM_001109668.1</a> , <a href="#">NP_001103138.1</a>
<b>RefSeq Size:</b>	3795 bp
<b>RefSeq ORF:</b>	825 bp
<b>Locus ID:</b>	361677
<b>UniProt ID:</b>	<a href="#">A2RUW1</a>
<b>Cytogenetics:</b>	1q41
<b>Gene Summary:</b>	Component of the signaling pathway of IL-1 and Toll-like receptors. Inhibits cell activation by microbial products. Recruits IRAK1 to the IL-1 receptor complex. Inhibits IRAK1 phosphorylation and kinase activity. Connects the ubiquitin pathway to autophagy by functioning as a ubiquitin-ATG8 family adapter and thus mediating autophagic clearance of ubiquitin conjugates. The TOLLIP-dependent selective autophagy pathway plays an important role in clearance of cytotoxic polyQ proteins aggregates (By similarity).[UniProtKB/Swiss-Prot Function]