

## Product datasheet for **RR204753**

### Tollip (NM\_001109668) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tollip (NM_001109668) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tollip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204753 representing NM_001109668 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCGACCACCGTCAGCACGCAGCGGGCCGGTATACATTGGTGAGCTCCCCAGGACTTTCTCCGTA  
TAACGCCACACAGCAGCAGCAGATACAGCTGGATGCCAGGCAGCCAGCAGCTGCAGTATGGAGG  
AGCAGTTGGCACTGTGGTCGTCTCAGCATCACTGTAGTACAGGCCAAATTGGCAAAGAATTATGGCATG  
ACTCGTATGGACCCTTACTGCCGCTGCGTCTGGGCTATGCTGTTTATGAACTCCACAGCACACAATG  
GCGCCAAGAACCCTCGATGGAACAAGGTTATTCAGTGCACAGTGCCCCAGGTGTGGACTCGTTCTACCT  
TGAGATCTTCGATGAGCGAGCCTTCTCCATGGACGACCGCATAGCTTGGACCCACATCACTATCCCCGAG  
TCCCTGAAGCAGGGCCAAGTGGAGGACGAGTGGTATAGCCTGAGTGGGAGGCAGGGCGACGACAAGGAGG  
GCATGATTAACCTGGTCATGTCCATACGTCCTTCCAGCTGCCATGATGATGCCGCTCAGCCTGTGGT  
TCTGATGCCAAGTGTACCAGCAGGGTGTGGCTATGTGCCATTGCAGGGATGCCTGCTGTCTGCAGC  
CCTGGCATGGTGCCTATGGCTATGCCCCACCAGCTGTGGCTCCTCAGCCCCGCTGTAATGAGGAGGACC  
TCAAGGCTATCCAGGACATGTTTCCAACATGGACAGGGAAGTAATCCGTTCTGTGCTTGAAGCCCCAAG  
AGGGAACAAGATGCTGCCATCAACTCCTTACTGCAAATGGGCGAAGAGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR204753 representing NM\_001109668  
Red=Cloning site Green=Tags(s)

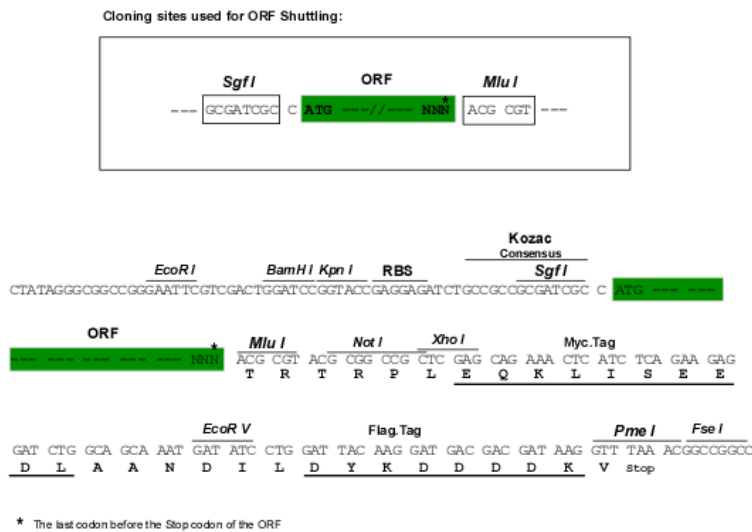
MATTVSTQRGPVYIGELPQDFLRITPTQQQQIQLDAQAAQQLQYGGAVGTVGRLSITVVQAKLAKNYGM  
 TRMDPYCRLRLGYAVYETPTAHNGAKNPRWNKVIQCTVPPGVDSFYLEIFDERAFSMDRIAETHITPE  
 SLKQGQVEDEWYSLSGRQDDKEGMINLVMSYTSLPAAMMPPQPVVLMPTVYQQGVGYVPIAGMPAVCS  
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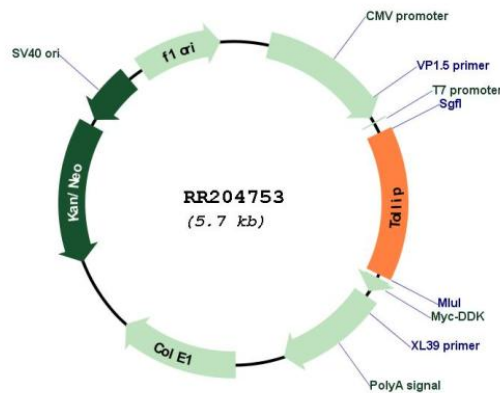
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001109668

**ORF Size:** 822 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_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>MW:</b>	30.3 kDa
<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]