

## Product datasheet for **RC235014**

### ITCH (NM\_001257137) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITCH (NM_001257137) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ITCH
Synonyms:	ADMFD; AIF4; AIP4; NAPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC235014 representing NM\_001257137  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGACAGTGGATCACAACTTGGTTCAATGGGTAGCCTACCATGAAATCACAGCTTCAGATCACTG  
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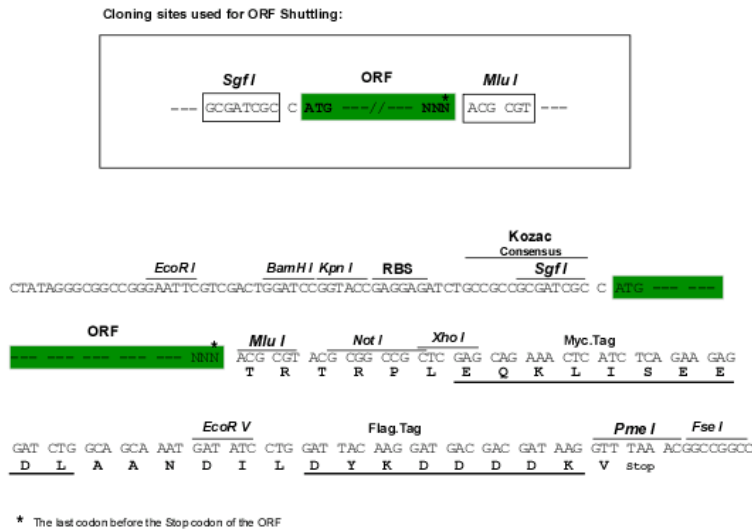
**Protein Sequence:** >RC235014 representing NM\_001257137  
 Red=Cloning site Green=Tags(s)

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 SFQQIMSFSPQDLRRLWVIFPGEEGLDYGVAWEFFLLSHEVLNPMYCLFEYAGKDNYCLQINPASYI  
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 QYFDAKELEVL LCGMQEIDLNDWQRHAIYRHYARTSKQIMWFQFVKEIDNEKRMRLQLFVTGTCLRPV  
 GFADLMGNSGPQKFCIEKVGKENWLP RSHTCFNRLLDLPYKSYEQLKEKLLFAIIEETEGFGQE

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**Restriction Sites:** SgfI-MluI

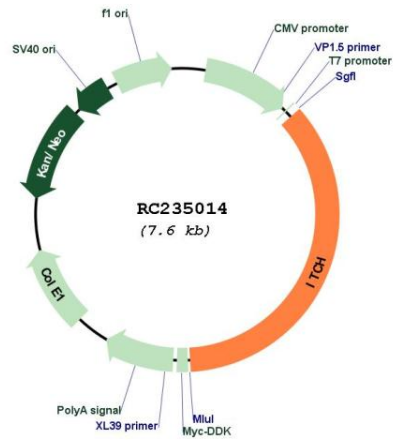
**Cloning Scheme:**



**ACCN:** NM\_001257137

<b>ORF Size:</b>	2709 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_001257137.3</a>
<b>RefSeq Size:</b>	6535 bp
<b>RefSeq ORF:</b>	2712 bp
<b>Locus ID:</b>	83737
<b>UniProt ID:</b>	<a href="#">Q96J02</a>
<b>Cytogenetics:</b>	20q11.22
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Endocytosis, Ubiquitin mediated proteolysis
<b>MW:</b>	103.3 kDa
<b>Gene Summary:</b>	This gene encodes a member of the Nedd4 family of HECT domain E3 ubiquitin ligases. HECT domain E3 ubiquitin ligases transfer ubiquitin from E2 ubiquitin-conjugating enzymes to protein substrates, thus targeting specific proteins for lysosomal degradation. The encoded protein plays a role in multiple cellular processes including erythroid and lymphoid cell differentiation and the regulation of immune responses. Mutations in this gene are a cause of syndromic multisystem autoimmune disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RC235014