

## Product datasheet for **RG234833**

### ITCH (NM\_001257138) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITCH (NM_001257138) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITCH
Synonyms:	ADMFD; AIF4; AIP4; NAPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234833 representing NM\_001257138  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAACTTGAAGAAGTAGTTGTGACTTTGCAGCTTGGAGGTGACAAAGGCCAACAGAGACAATAGGAG  
 ACTTGCAATTTGCTTGATGGGTACAGTTAGAGTCTGAAGTTGTTACCAATGGTGAACTACATGTTT  
 AGAAAGTGCTTCTCAGAATGATGATGGCTCCAGATCCAAGGATGAAACAAGAGTGAGCACAAATGGATCA  
 GATGACCTGAAGATGCAGGAGCTGGTAAAAATAGGAGAGTCAAGTGGAAATAATTCTCCATCACTCTCAA  
 ATGGTGGTTTTAAACCTTCTAGACCTCCAAGACCTTACGACCACCACCACCCACCCACGTAGACCAGC  
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 AATACAAATACAAATACATCTGAAGGAGCAACATCTGGATTAATAATTCTCTTACTATATCTGGAGGCT  
 CAGGCCCTAGGCCATTAATCCTGTAACCAAGCTCCCTTCCACCTGGTGGGAGCAGAGAGTGGACCA  
 GCACGGGCGAGTTTACTATGTAGATCATGTTGAGAAAAGAACAACATGGGATAGACCAGAACCTCTACCT  
 CCTGGCTGGGAACGGCGGGTTGACAACATGGGAGCTATTTATTATGTTGACCATTTACACAAGAACAACA  
 CGTGGCAGAGGCCAACACTGGAATCCGTCCGGAATATGAACAATGGCAGCTACAGCGTAGTCAGCTTCA  
 AGGAGCAATGCAGCAGTTAACCAGAGATTCATTTATGGGAATCAAGATTTATTTGCTACATCACAAAGT  
 AAAGAATTTGATCCTCTTGGTCCATTGCCACCTGGATGGGAGAAGAGAACAGACAGCAATGGCAGAGTAT  
 ATTTCTGCAACCAACAACACGAATTACACAATGGGAAGACCCCAAGTCAAGTCAATTAATGAAAA  
 GCCCTTACCTGAAGGTTGGGAAATGAGATTACAGTGGATGGAATTCATATTTGTGGACCACAATAGA  
 AGAAGTACCACCTATATAGATCCCCGCACAGGAAAATCTGCCCTAGACAATGGACCTCAGATAGCCTATG  
 TTCGGGACTTCAAAGCAAAGGTTCAATTTCCGGTTCTGGTGTGAGCAACTGGCCATGCCACAGCACAT  
 AAAGATTACAGTGACAAGAAAAACATTTGTTGAGGATTCCTTTCAACAGATAATGAGCTTCAAGTCCCAA  
 GATCTGCGAAGACGTTTGTGGGTGATTTTTCCAGGAGAAGAAGGTTTAGATTATGGAGGTGTAGCAAGAG  
 AATGGTCTTTCTTTTGTACATGAAGTGTGAACCCAATGTATTGCCTGTTGAATATGCAGGGAAGGA  
 TAACTACTGCTTGCAGATAAACCCTGTTCTTACATCAATCCAGATCACCTGAAATATTTTCGTTTTATT  
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 TTATGTGGAAATGCAAGAGATTGATTTGAATGACTGGCAAAGACATGCCATCTACCGTCATTATGCAAGGA  
 CCAGCAAAACAATCATGTGGTTTTGGCAGTTTGTAAAGAAATGATAATGAGAAGAGAATGAGACTTCT  
 GCAGTTTGTACTGGAACCTGCCGATTGCCAGTAGGAGGATTTGCTGATCTCATGGGGAGCAATGGACCA  
 CAGAAATCTGCATTGAAAAAGTTGGGAAAGAAAATTGGCTACCCAGAAGTCATACCTGTTTTAATCGCC  
 TGGACCTGCCACCATACAAGAGCTATGAGCAACTGAAGGAAAAGCTGTTGTTGCCATAGAAGAAACAGA  
 AGGATTTGGACAAGAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG234833 representing NM\_001257138  
Red=Cloning site Green=Tags(s)

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MKLEEVVTLQLGGDKPETETIGDLSICLDGLQLESEVVTNGETTCSSESASQNDGSRSKDETRVSTNGS
DDPEDAGAGENRRVSGNNPSLSNGGFKPSRPPRPSRPPPTPRRPASVNGSPSATSESDGSSTGSLPPT
NTNTNTSEGATSLIIPLTISGGSGRPLNPVTQAPLPPGWEQRVDQHGRVYVVDHVEKRITWDRPEPLP
PGWERRVDNMGRIIYYVDHFTRTTTWQRPTLESVRNYEQWQLQRSQLQGAMQQFNQRFIYGNQDLFATSQS
KEFDPLGPLPPGWEKRTDSNGRVYFVNHNTRITQWEDPRSQQQLNEKPLPEGWEMRFTVDGIPYFVDHNR
RTTTYIDPRTGKSALDNGPQIAYVRDFKAKVQYFRWCQQLAMPQHIKITVTRKTLFEDSFQQIMSFSPQ
DLRRRLWVIFPGEEGLDYGGVAREWFFLLSHEVLNPMYCLFEYAGKDNLYCLQINPASYINPDHLKYFRFI
GRFIAMALFHGKFIDTGFSLPFYKIRLNKPVGLKDLESIDPEFYNSLIWVKENNIEECDLEMYFSVDKEI
LGEIKSHDLKPNGGNILVTEENKEEYIRMVAEWRLSRGVEEQTAFFEGFNEILPQQYLQYFDAKELEVL
LCGMQEIDLNDWQRHAIYRHYARTSKQIMWFVQFVKEIDNEKRMRLQLQVTGTGTCRLPVGGFADLMGNSGP
QKFCIEKVGKENWLP RSHTCFNRLLDLPYKSYEQLKEKLLFAIEETEGFGQE
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001257138

**ORF Size:** 2256 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001257138.3](#)

**RefSeq Size:** 6270 bp

**RefSeq ORF:** 2259 bp

**Locus ID:** 83737

**UniProt ID:** [Q96J02](#)

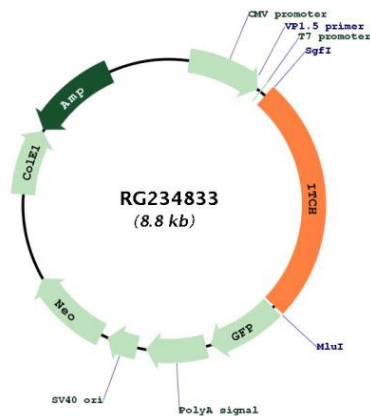
**Cytogenetics:** 20q11.22

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Endocytosis, Ubiquitin mediated proteolysis

**Gene Summary:** 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 RG234833