

Product datasheet for **SC332505**

ITCH (NM_001257138) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITCH (NM_001257138) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITCH
Synonyms:	ADMFD; AIF4; AIP4; NAPP1
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC332505 representing NM_001257138.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAAACTTGAAGAAGTAGTTGTGACTTTGCAGCTTGGAGGTGACAAAGAGCCAACAGAGACAATAGGA
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001257138

Insert Size: 2259 bp

OTI Disclaimer: 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).

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_001257138.1](#)

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

MW: 86.5 kDa

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]
Transcript Variant: This variant (3) lacks two internal exons and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (3) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.