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Product datasheet for SC108233

ITCH (NM_031483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITCH (NM_031483) Human Untagged Clone
Tag:	Tag Free
Symbol:	ITCH
Synonyms:	ADMFD; AIF4; AIP4; NAPP1
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None

View online »

Fully Sequenced ORF: >NCBI ORF sequence for NM_031483, the custom clone sequence may differ by one or more nucleotides

ATGTCTGACAGTGGATCACAACTTGGTTCAATGGGTAGCCTCACCATGAAATCACAGCTTCAGATCACTG
TCATCTCAGCAAAACTTAAGGAAAATAAGAAGAATTGGTTTGGACCAAGTCCTTACGTAGAGGTCACAGT
AGATGGACAGTCAAAGAAGACAGAAAAATGCAACAACACAAACAGTCCCAAGTGGAAGCAACCCCTTACA
GTTATCGTTACCCCTGTGAGTAAATTACATTTTCGTGTGTGGAGTCACCAGACACTGAAATCTGATGTTT
TGTTGGGAACTGCTGCATTAGATATTTATGAAACATTAAAGTCAAACAATATGAAACTTGAAGAAGTAGT
TGTGACTTTGCAGCTTGGAGGTGACAAAGAGCCAACAGAGACAATAGGAGACTTGTCAATTTGTCTTGAT
GGGCTACAGTTAGAGTCTGAAGTTGTTACCAATGGTGAAACTACATGTTCAGAAAGTGCTTCTCAGAATG
ATGATGGCTCCAGATCCAAGGATGAAACAAGAGTGAGCACAAATGGATCAGATGACCCTGAAGATGCAGG
AGCTGGTGAAAATAGGAGAGTCAGTGGGAATAATTCTCCATCACTCTCAAATGGTGGTTTTAAACCTTCT
AGACCTCCAAGACCTTCACGACCACCACCACCCACCCCACGTAGACCAGCATCTGTCAATGGTTCACCAT
CTGCCACTTCTGAAAGTGATGGGTCTAGTACAGGCTCTCTGCCGCCGACAAATACAAATACAAATACATC
TGAAGGAGCAACATCTGGATTAATAATTCCTCTTACTATATCTGGAGGCTCAGGCCCTAGGCCATTAAAT
CCTGTAACTCAAGCTCCCTTGCCACCTGGTTGGGAGCAGAGAGTGGACCAGCACGGGCGAGTTTACTATG
TAGATCATGTTGAGAAAAGAACAACATGGGATAGACCAGAACCTCTACCTCCTGGCTGGGAACGGCGGGT
TGACAACATGGGACGTATTTATTATGTTGACCATTTCACAAGAACAACAACGTGGCAGAGGCCAACACTG
GAATCCGTCCGGAACTATGAACAATGGCAGCTACAGCGTAGTCAGCTTCAAGGAGCAATGCAGCAGTTTA
ACCAGAGATTCATTTATGGGAATCAAGATTTATTTGCTACATCACAAAGTAAAGAATTTGATCCTCTTGG
TCCATTGCCACCTGGATGGGAGAAGAGAACAGACAGCAATGGCAGAGTATATTTCGTCAACCACAACACA
CGAATTACACAATGGGAAGACCCCAGAAGTCAAGGTCAATTAAATGAAAAGCCCTTACCTGAAGGTTGGG
AAATGAGATTCACAGTGGATGGAATTCCATATTTTGTGGACCACAATAGAAGAACTACCACCTATATAGA
TCCCCGCACAGGAAAATCTGCCCTAGACAATGGACCTCAGATAGCCTATGTTCGGGACTTCAAAGCAAAG
GTTCAGTATTTCCGGTTCTGGTGTCAGCAACTGGCCATGCCACAGCACATAAAGATTACAGTGACAAGAA
AAACATTGTTTGAGGATTCCTTTCAACAGATAATGAGCTTCAGTCCCCAAGATCTGCGAAGACGTTTGTG
GGTGATTTTTCCAGGAGAAGAAGGTTTAGATTATGGAGGTGTAGCAAGAGAATGGTTCTTTCTTTTGTCA
CATGAAGTGTTGAACCCAATGTATTGCCTGTTTGAATATGCAGGGAAGGATAACTACTGCTTGCAGATAA
ACCCCGCTTCTTACATCAATCCAGATCACCTGAAATATTTTCGTTTTATTGGCAGATTTATTGCCATGGC
TCTGTTCCATGGGAAATTCATAGACACGGGTTTTTCTTTACCATTCTATAAGCGTATCTTGAACAAACCA
GTTGGACTCAAGGATTTAGAATCTATTGATCCAGAATTTTACAATTCTCTCATCTGGGTTAAGGAAAACA
ATATTGAGGAATGTGATTTGGAAATGTACTTCTCCGTTGACAAAGAAATTCTAGGTGAAATTAAGAGTCA
TGATCTGAAACCTAATGGTGGCAATATTCTTGTAACAGAAGAAAATAAAGAGGAATACATCAGAATGGTA
GCTGAGTGGAGGTTGTCTCGAGGTGTTGAAGAACAGACACAAGCTTTCTTTGAAGGCTTTAATGAAATTC
TTCCCCAGCAATATTTGCAATACTTTGATGCAAAGGAATTAGAGGTCCTTTTATGTGGAATGCAAGAGAT
TGATTTGAATGACTGGCAAAGACATGCCATCTACCGTCATTATGCAAGGACCAGCAAACAAATCATGTGG
TTTTGGCAGTTTGTTAAAGAAATTGATAATGAGAAGAGAATGAGACTTCTGCAGTTTGTTACTGGAACCT
GCCGATTGCCAGTAGGAGGATTTGCTGATCTCATGGGGAGCAATGGACCACAGAAATTCTGCATTGAAAA
AGTTGGGAAAGAAAATTGGCTACCCAGAAGTCATACCTGTTTTAATCGCCTGGACCTGCCACCATACAAG
AGCTATGAGCAACTGAAGGAAAAGCTGTTGTTTGCCATAGAAGAAACAGAAGGATTTGGACAAGAGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031483 unedited
GGGCACATTTGTATACGACTCACTATAGGCGGCCGCGATTCGGCACGAGGATGCATTTCA
CAGTGGCCTTGTGGAGACAACGCCTTAACCCAAGGAAGTGACTCAAACTGTGAGAACTTC
AGGTTTTCCAACCTATTGGTGGTATGTCTGACAGTGGATCACAACTTGGTTCAATGGGTA
GCCTCACCATGAAATCACAGCTTCAGATCACTGTCATCTCAGCAAAACTTAAGGAAAATA
AGAAGAATTGGTTTGGACCAAGTCCTTACGTAGAGGTCACAGTAGATGGACAGTCAAAGA
AGACAGAAAAATGCAACAACACAAACAGTCCCAAGTGGAAGCAACCCCTTACAGTTATCG
TTACCCCTGTGAGTAAATTACATTTTCGTGTGTGGAGTCACCAGACACTGAAATCTGATG
TTTTGTTGGGAACTGCTGCATTAGATATTTATGAAACATTAAAGTCAAACAATATGAAAC
TTGAAGAAGTAGTTGTGACTTTGCAGCTTGGAGGTGACAAAGAGCCAACAGAGACAATAG
GAGACTTGTCAATTTGTCTTGATGGGCTACAGTTAGAGTCTGAAGTTGTTACCAATGGTG
AAACTACATGTTCAGAAAGTGCTTCTCAGAATGATGATGGCTCCAGATCCAAGGATGAAA
CAAGAGTGAGCACAAATGGATCAGATGACCCTGAAGATGCAAGAGCTGGTGAAAATAGGA
GAGTCAGTGGGAATAATTCTCCATCACTCTCAAATGGTGGTTTTAAACCTCTAGACCTCA
AGACCTTCACGACCACCACCACCCACCCCACGTAGACCAGCATCTGTCAATGGGTCACCA
TCCTGCCACTTTGAAAGTGAGGGTCTAGTACAAGCTCTCCTGCCCCGACAAAACCAATAC
AATACATCTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031483 unedited
GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTATTTATCCCCCACCACGCTGCCC
AAAAAAAAGAACAGGGTCTCCCTATGTTGCCCAGGCTGGTCTTTAACTCCTGGGCTAAAG
GGATCCTCCTGCCTCGGCCTCCCAGAGTGCTAGGATTACAGGTATGAGCCACCATGCCCG
GCCCTAGGTTAACTTCTTAAAACAATGAAGGAATCACAGTGTTAACATTGTTTGTAAAGT
GTAGTATTTGTCAGGCAACTGAAACAATCAGACTTCCAAATGAAGTCATTTGCAGGCTGT
GACCAACTTTTCCCTGAATTCAAATTGACAAAACTACTTTGTAGAGATGCAAGAGTCTTG
CCTCACTTCCAGGAATGATGTATGGATTCATGCGCCAGAAAGGAAAAACAATAGTCAAGT
CAGACTAAAATGAGAGGGAGAACACAAGCCCGAATTTTGCTCACATCCNCAGAAGCAGGA
GTAAGCTTGCACTTTTAACAAATGCCTCTTACCAAGAGGCTTAATAGGAAAATCTTGTAT
ATTGCAGTTACCAAAGGACTTCCCTGCATGTCTGCAGAATGTCTAANAGAAAAAACACTA
CTCCCAAGTGAGACTTTTGACACACATAANATATTGTGTTAAAGGAATAACTAGTGGAAT
AGACAAGGGCAATTCATTGTGTGTAAAATCTATGTTAGCAGGTTCTGACTAGTCATTGCA
GACCTGATTCTGGAACGCTGAGTGAAATCACTGGAGATAATCTAATGAGACATTATTTAC
TTCACTCAGATACTCTCTAAGACCCATTGTCATTTACAGATGTGCCACAGCANAAAAGAC
AAACATGCAATTAGTCCTGCCATTCATGTGCCAGTTTAAAGTACTCTGCCAATCCTCTGT
TTTCTATGCAACAAAGCTTNCTAGTGCTAAACTCTGGTGGGGCAGTCAGCGATAAACGGT
GACTCTGGACCATTTCTTCCACTTTCAGCAATTCTTGGCATGCTCCAGAAAACAACTC

Restriction Sites: NotI-NotI

ACCN: NM_031483

Insert Size: 3910 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_031483.3, NP_113671.3
RefSeq Size:	6357 bp
RefSeq ORF:	2589 bp
Locus ID:	83737
UniProt ID:	Q96J02
Cytogenetics:	20q11.22
Domains:	C2, HECT, WW
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] Transcript Variant: This variant (2) lacks an exon in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Both variants 2 and 5 encode the same isoform (2). 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.