

## Supplemental Data

### Human ITCH E3 Ubiquitin Ligase Deficiency

#### Causes Syndromic Multisystem Autoimmune Disease

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ITCH Primers	Sequence
ITCHX1F	gcctgctggggctttag
ITCHX1R	tctccccgaacatttctcatc
ITCHX2F	tgtgttaatggactctccttcctt
ITCHX2R	cttggcctctgcatcactct
ITCHX3F	tgggaatTTTTgatgtttacagtg
ITCHX3R	cctggccctctcaggattat
ITCHX4F	tgatggtacggggaaccctc
ITCHX4R	accagaaggagtcctaggaaaaag
ITCHX5F	tgtaaggggtgcagtgagaag
ITCHX5R	aatggtcaaaccaaggttactcag
ITCHX6F	gttcaaaccctgggtgaaacatag
ITCHX6R	aacctccaagctcaagcaatc
ITCHX7F	aaggcaggaatagtagtgcagtag
ITCHX7R	tctatctctccgatttctgtgg
ITCHX8F	ttagaagttttcatcctcctgctg
ITCHX8R	tgctcagtaacgtcaccttg
ITCHX9F	ctggcagcgttggttatctc
ITCHX9R	aaaaacagtcataaaaacaatggag
ITCHX10F	gattaaaaagccaggtaactcatgc
ITCHX10R	tggaacagagaaagggctgac
ITCHX11F	ctgcacctggcAAAAAG
ITCHX11R	gccatgctacttgccaccttc
ITCHX12F	attgccagggaaagggaaatc
ITCHX12R	tcccagacattcactcaagc
ITCHX13F	tcttgctgctgttggttgg
ITCHX13R	ggtgattaacgttttaggtctttgg
ITCHX14F	tgtacttggcaaacaagcaactc
ITCHX14R	gaaataactaagacttccactccttgc
ITCHX15F	gggtgggatattttgctttcc
ITCHX15R	ccattttacctgtttttctgtgag
ITCHX16F	caatcttggtggttcttctgtttgc
ITCHX16R	caaggacttcaactcaagaagttcc
ITCHX17F	cgaaggagatgtcaaacctagaag
ITCHX17R	tgatgtgggtgaaatcaatcag
ITCHX18F	tgaggggtatagatccctgagaac
ITCHX18R	ctcatatgatctgttatggcacctaag
ITCHX19X20F	atgcctgacccaggaagtg

ITCHX19X20R	agtgatcctgcatgacttttatcc
ITCHX21X22F	ggacatgtgtacagggggttc
ITCHX21X22R	tgtgtggcttacttggcaatag
ITCHX23F	ctgctgcccaggagttagag
ITCHX23R	tggctatccctgtctttgttg
ITCHX24F	tgttggattggggaacacag
ITCHX24R	caggggtgaacaaaatgctc
ITCHX25F	tgatgggatcctttgaagcacag
ITCHX25R	ccttgacagtcgaagctaggc