SUPPLEMENTARY TABLE S2. PSORT II ANALYSIS OF IFN-λ4 ORTHOLOGS

Ortholog	*Nuclear localization signals*	*Localization prediction*
Human	pat4: RPRR (4) at 65 pat4: KRRH (3) at 139 pat4: RRHK (3) at 140 pat4: KPRR (4) at 143 pat7: PGAQKRR (3) at135 pat7: PRCRKAS (5) at150	69.6%: nuclear 13.0%: plasma membrane 8.7%: mitochondrial 4.3%: cytoplasmic 4.3%: vesicles of the secretory system
Chimp	pat4: RPRR (4) at 65 pat4: RRRH (3) at 139 pat4: RRHK (3) at 140 pat4: KPRR (4) at 143 pat7: PGAQRRR (3) at 135	52.2%: mitochondrial 30.4%: nuclear 8.7%: cytoskeletal 4.3%: cytoplasmic 4.3%: extracellular, including cell wall
Orangutan	pat4: RPRR (4) at 65 pat4: RRRH (3) at 139 pat4: RRHK (3) at 140 pat4: KPRR (4) at 143 pat7: PGAQRRR (3) at 135	52.2%: mitochondrial 26.1%: nuclear 13.0%: extracellular, including cell wall 4.3%: cytoplasmic 4.3%: cytoskeletal
Rhesus	pat4: RPRR (4) at 65 pat4: PRRR (4) at 138 pat4: RRRH (3) at 139 pat4: RRHK (3) at 140 pat4: KPRR (4) at 143 pat7: PGAPRRR (3) at 135 pat7: PRRRHKP (5) at 138	52.2%: mitochondrial 30.4%: nuclear 8.7%: cytoskeletal 4.3%: cytoplasmic 4.3%: extracellular, including cell wall
Marmoset	pat4: PRRR (4) at 138 pat4: RRRH (3) at 139 pat4: RRHK (3) at 140 pat4: KPRR (4) at 143 pat7: PGAPRRR (3) at 135 pat7: PRRRHKP (5) at 138	52.2%: mitochondrial 30.4%: nuclear 8.7%: cytoskeletal 4.3%: cytoplasmic 4.3%: extracellular, including cell wall
Cynomolgus	pat4: RPRR (4) at 65 pat4: PRRR (4) at 138 pat4: RRRH (3) at 139 pat4: RRHK (3) at 140 pat4: KPRR (4) at 143 pat7: PGAPRRR (3) at 135 pat7: PRRRHKP (5) at 138	56.5%: mitochondrial 26.1%: nuclear 8.7%: cytoskeletal 4.3%: cytoplasmic 4.3%: extracellular, including cell wall
Dog	pat4: RPRR (4) at 71 pat4: PRRR (4) at 144 pat4: RRRP (4) at 145 pat7: PPRRRPQ (5) at 143 pat7: PRRRPQR (5) at 144 pat7: PQRRRAD (5) at 148	47.8%: nuclear 21.7%: extracellular, including cell wall 13.0%: mitochondrial 8.7%: cytoskeletal 4.3%: cytoplasmic 4.3%: vacuolar
Panda	pat4: RPRK (4) at 71 pat4: PRRR (4) at 144 pat4: RRRP (4) at 145 pat7: PPRRRPQ (5) at 143 pat7: PRRRPQT (5) at 144	47.8%: nuclear 13.0%: cytoplasmic 13.0%: extracellular, including cell wall 13.0%: mitochondrial 8.7%: cytoskeletal 4.3%: vacuolar
Elephant	pat4: PRRR (4) at 145 pat4: RRRH (3) at 146 pat4: RRHK (3) at 147 pat7: PPRRRHK (5) at 144 pat7: PRRRHKA (5) at 145	55.6%: endoplasmic reticulum 11.1%: cytoplasmic 11.1%: Golgi 11.1%: nuclear 11.1%: mitochondrial

(*continued*)

SUPPLEMENTARY TABLE S2. (CONTINUED)

Ortholog	*Nuclear localization signals*	*Localization prediction*
Pig	pat4: PRRR (4) at 145 pat4: RRRH (3) at 146 pat4: RRHR (3) at 147 pat7: PPRRRHR (5) at 144 pat7: PRRRHRA (5) at 145	55.6%: extracellular, including cell wall 11.1%: vacuolar 11.1%: cytoplasmic 11.1%: nuclear 11.1%: endoplasmic reticulum
Bat	pat4: RPRR (4) at 69 pat4: PRRR (4) at 142 pat4: RRRR (5) at 143 pat7: PPRRRRQ (5) at 141 pat7: PRRRRQR (5) at 142	30.4%: nuclear 21.7%: mitochondrial 17.4%: cytoplasmic 13.0%: Golgi 8.7%: plasma membrane 4.3%: extracellular, including cell wall 4.3%: cytoskeletal
Cow	pat4: RPKR (4) at 71 pat4: RRPK (4) at 146 pat7: PGRRPKT (4) at 144 pat7: PKTRRAV (5) at 148	47.8%: nuclear 17.4%: cytoplasmic 13.0%: mitochondrial 8.7%: plasma membrane 4.3%: vesicles of the secretory system 4.3%: extracellular, including cell wall 4.3%: Golgi

PSORT II (http://psort.hgc.jp/) uses the following two rules to detect NLS: 4 residue pattern (called 'pat4') comprising 4 basic amino acids (K or R) or comprising three basic amino acids (K or R) and either H or P; the other (called 'pat7') is a pattern starting with P and followed within 3 residues by a basic segment containing 3 K/R residues of 4.