Detection and evolutionary dynamics of somatic FAS variants in autoimmune lymphoproliferative syndrome: diagnostic implications

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**Supplementary Table 1.** Primers and PCR conditions for FAS, CASP8, and CASP10 amplification and subsequent sequencing by Sanger method. PCR conditions (35 cycles) were as follows: 95°C for 30 s, annealing for 30 s (see specific temperatures in the table) and 72°C for 45 s.

| Exon | Primer forward (5'-3') | Primer reverse (5'-3') | Amplimer | Tª annealing |
|------|------------------------|------------------------|----------|--------------|
| FAS  |                        |                        |          |              |
| 1    | AAGCCTTTAGAAAGGCCAGGAGG| GGCCTGAGGGAAGGTCTAACAG | 707 bp   | 65°C         |
| 2    | CAGTGGAGCCCTCACATTGTC  | TGGAGCCAAATAGACCAGTCTTTC | 553 bp   | 66°C         |
| 3    | ATCTCAGTGAGCCAGTAACA   | TATCTGGAAGAAATTGCCTAGAC | 735 bp   | 66°C         |
| 4    | CTGGTGTCATGCTGACTGTGG  | TAGTTGCTTGAGGCAAAGCAG   | 364 bp   | 66°C         |
| 5-6  | ATACGTGGGCCAGATGCAAAG  | AAGAATGAGCCAAATCTGTGAAC | 471 bp   | 64°C         |
| 7    | GGCCAGCCTGTGTAATTAGATG | CACTTGAGCCAGACTTTGAG    | 515 bp   | 66°C         |
| Row | Sequence 1 | Sequence 2 | Length | Temperature |
|-----|------------|------------|--------|-------------|
| 1.0 | ACATGGCTTCTCCTTTATCCTC | GTAGACGAGGCAGTATTTACAGCCAGC | 342 bp | 64°C |
| 2.0 | TCTGTTTTCTGTATTCCCCTAGTCAGC | AAAACAGCAGATT | 417 bp | 64°C |
| 3-4 | CATTGGCTTGTTTGTTATGCTTA | CCACCCCAAGGCCTACTTG | 673 bp | 64°C |
| 5.0 | AGAGGGAGACCCGAGTTGG | CATGCCCTTTTTTGGTATAGCTT | 417 bp | 66°C |
| 6.0 | TGTGACCTTCTACCACCCTACTG | TGGCCTCATGCTAATGCTT | 630 bp | 66°C |
| 7.0 | AATGCCAGAACGGAGGAA | GGGGAAGGTGTAGTGTAACAGTG | 778 bp | 66°C |

CASP8

| Row | Sequence 1 | Sequence 2 | Length | Temperature |
|-----|------------|------------|--------|-------------|
| 1.0 | GCTTAGTTTCTGGCAAGGCCG | GAAAAGTTCTTAAGCCTCAGACTATTG | 481 bp | 64°C |
| 2.0 | TCTGTGTTCTGTACCCTAGTCAGC | AAACCAAGCAGATT | 570 bp | 62°C |

CASP10

| Row | Sequence 1 | Sequence 2 | Length | Temperature |
|-----|------------|------------|--------|-------------|
| 1.0 | AATGCCAGAACGGAGGAA | GAGGTGGGCTTCACTGCTAGT | 721 bp | 66°C |
| 2.0 | GGCCTGCTTCTACCACCCTACTG | TGGCTCATGCTAATGCTT | 630 bp | 66°C |
| 3.0 | TGTGACCTTCCGGCAAGTTAC | AACATAGTGAAACCCTGTCGCT | 778 bp | 66°C |
| No. | Sequence 1 | Sequence 2 | Length (bp) | Temperature (°C) |
|-----|------------|------------|-------------|-----------------|
| 4   | ACTGGCTTTATTTAAGGACCAC GCCCTGTGCTCCATAGATTAT | 701 bp | 64°C |
| 5   | CTTTTCTGTGGCTGGATTAG GCCTGCAGTCCCTAGAATCT | 404 bp | 66°C |
| 6   | GGCCTTGAGAGAAGCATAATTC CGTGGTACATCTTTATCCAAGC | 542 bp | 64°C |
| 7   | ATCACAAGGTCAAGAGATCAAG AAGAGGCTCAGAAACATGATA | 780 bp | 60°C |
| 8   | AGTTCTTCATTTTGTGTTGCAT AACGTAGAACTCTCACCCTTAC | 679 bp | 60°C |
| 9   | GGCCTCTCCACTTGAGTTATCA TGTCAATCTCAGCGATGT | 487 bp | 66°C |

*aOnly coding exons have been sequenced.*