Table S1. Primers used for Sanger sequencing and transcriptome analysis

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| Primer name | Sequence |
| STAG2\_cDNA\_qPCR\_2F | CAGCTTTGGTGAATGTGGCA |
| STAG2\_cDNA\_qPCR\_2R | AGCCTCTCATTGGCTCGTTT |
| STAG2\_cDNA\_qPCR\_4F | GGCATGCAGCTTTCACTCAC |
| STAG2\_cDNA\_qPCR\_4R | CTGTGTTGGCGTACAGGTCT |
| ACTB\_cDNA\_qPCR\_F | CTTCCAGCCTTCCTTCCTGG |
| ACTB\_cDNA\_qPCR\_R | CTGTGTTGGCGTACAGGTCT |
| Li\_STAG2-Ex22F | CAGCTCTCCCACAGGCGAATGCAGTGCGTGAATAACAATctg |
| Li\_STAG2-Ex22R | GGTCAGCTCTCCCAGCGATatttgttgttgtcgttgtgggg |
| Li\_STAG2-cDNA-Ex20F1 | GGTCAGCTCTCCCAGCGATTGCCTTATTGCGACAGATCCGG |
| Li\_STAG2-cDNA-Ex21F2 | GGTCAGCTCTCCCAGCGATGTGAAGAACCTGATGAAGATGATGC |
| Li\_STAG2-cDNA-Ex23R2 | CAGCTCTCCCACAGGCGAACAAGTTGCCAAAGGATTACATAGTGAG |
| Li\_STAG2-cDNA-Ex24R1 | CAGCTCTCCCACAGGCGAAACAGTAGTATTCACGTTGGTCAGG |
| Li\_STAG2-Ex15F | GGTCAGCTCTCCCAGCGATacctacccagttctcctttactcc |
| Li\_STAG2-Ex15R | CAGCTCTCCCACAGGCGAAtgtgcctcattttaaccccttttcc |
| Li\_STAG2-cDNA-Ex12F1 | GGTCAGCTCTCCCAGCGATTGCATGATAAGCAAGGTGAAGT |
| Li\_STAG2-cDNA-Ex18R1 | CAGCTCTCCCACAGGCGAACTCCTTTGCTGTAAGCACCC |
| Li\_STAG2-cDNA-Ex12F2 | GGTCAGCTCTCCCAGCGATTGTCTTACTGCTCTACAAGGGC |
| Li\_STAG2-cDNA-Ex18R2 | CAGCTCTCCCACAGGCGAACCACGGCAAAAAGCTCAGTG |
| Li\_STAG2-cDNA-Ex14F1 | GGTCAGCTCTCCCAGCGATTGGTTTATTCAGCTCACCGGCC |
| Li\_STAG2-cDNA-Ex16R1 | CAGCTCTCCCACAGGCGAATCCCAGTCTTTCAGCAGCTCAG |