AT2G35300 (AtLEA18) recombinant protein induction optimization

Sequencing Results

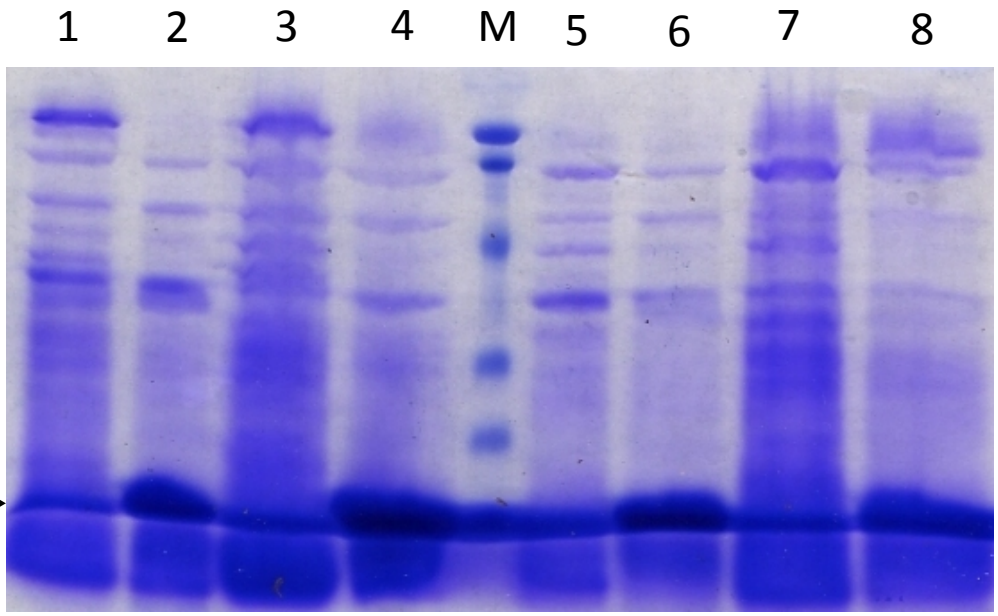
ATGGGCAGCAGCCATCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATGGCTAGCATG
ACTGGTGGACAGCAAATGGGTCGCGGATCCGAATTCATGCAGTCGGCGAAGGAAAAGATCAGTGACATGGCC
AGTACGGCCAAGGAGAAACTCAACATCGGTGGCGCAAAGGCACAAGGTCATGCGGAGAAGACGATGGCAAGG
ACCAAAAAAGAGAAGAAGTTGGCCCAAGAGCGAGAGAAGTCTAAGGAGGCGCAGGCCAAAGCTGACCTCCAT
CAATCCAAGGCTGAGCATGCTGCGGACGCTCAGGTTCACGGCCACCATCTTCCCGGTCACTCCACCTACCCT
ACCCGAGCCACCGGAGCTAATTACCCGCCGGGACAGATCTAA

M G S S H H H H H H S S G L V P R G S H M A S M T G G Q Q M G R G
S E F M Q S A K E K I S D M A S T A K E K L N I G G A K A Q G H A
E K T M A R T K K E K K L A Q E R E K S K E A Q A K A D L H Q S K
A E H A A D A Q V H G H H L P G H S T Y P T R A T G A N Y P P G Q
I **Stop**

1. 25 °C (4hrs) Uninduced
2. 25 °C (4hrs) Induced
3. 25 °C (o/n) Uninduced
4. 25 °C (o/n) Induced

M Protein Marker

5. 37 °C (4hrs) Uninduced
6. 37 °C (4hrs) Induced
7. 37 °C (o/n) Uninduced
8. 37 °C (o/n) Induced



Theoretical pI/Mw: 9.8/14069

AtLEA18

pET28 containing the coding sequence of *AT2G35300*, including its stop codon, was placed in BL21(DE3)RIL. Cells were grown to an OD_{600} of 0.8 at 37˚C at which point the culture was split into 4 tubes. Two tubes remained at 37 ˚C while 2 were removed to 25 ˚C. One tube at each temperature was induced by making it 1 mM with respect to IPTG. Aliquots were retrieved at the indicated times and the bacterial pellet boiled in SDS-loading buffer and electrophoresed through a 15% total, SDS-polyacrylamide gel.