**Investigator:** Pontus Nordenfelt

**Sample ID\***: aLL-EGFP

**Bacterial Strain­**: DH5α

**Vector:** pcDNA3.1/hygro(-); 5.6 kb

**Antibiotics**: Ampicillin, Hygromycin

XbaI

NotI

|  |
| --- |
| **Insert**: full-length human aL with EGFP in betapropeller |

between XbaI and NotI; 4300 bp

**Tags**: **tension sensor module**

**Linker in orange**

**Insert nucleotide sequence**:

TCTAGAGCCACCATGAAGGATTCCTGCATCACTGTGATGGCCATGGCGCTGCTGTCTGGGTTCTTTTTCTTCGCGCCGGCCTCGAGCTACAACCTGGACGTGCGGGGCGCGCGGAGCTTCTCCCCACCGCGCGCCGGGAGGCACTTTGGATACCGCGTCCTGCAGGTCGGAAACGGGGTCATCGTGGGAGCTCCAGGGGAGGGGAACAGCACAGGAAGCCTCTATCAGTGCCAGTCGGGCACAGGACACTGCCTGCCAGTCACCCTGAGAGGTTCCAACTATACCTCCAAGTACTTGGGAATGACCTTGGCAACAGACCCCACAGATGGAAGCATTTTGGCCTGTGACCCTGGGCTGTCTCGAACGTGTGACCAGAACACCTATCTGAGTGGCCTGTGTTACCTCTTCCGCCAGAATCTGCAGGGTCCCATGCTGCAGGGGCGCCCTGGTTTTCAGGAATGTATCAAGGGCAACGTAGACCTGGTATTTCTGTTTGATGGTTCGATGAGCTTGCAGCCAGATGAATTTCAGAAAATTCTGGACTTCATGAAGGATGTGATGAAGAAACTCAGCAACACTTCGTACCAGTTTGCTGCTGTTCAGTTTTCCACAAGCTACAAAACAGAATTTGATTTCTCAGATTATGTTAAACGGAAGGACCCTGATGCTCTGCTGAAGCATGTAAAGCACATGTTGCTGTTGACCAATACCTTTGGTGCCATCAATTATGTCGCGACAGAGGTGTTCCGGGAGGAGCTGGGGGCCCGGCCAGATGCCACCAAAGTGCTTATCATCATCACGGATGGGGAGGCCACTGACAGTGGCAACATCGATGCGGCCAAAGACATCATCCGCTACATCATCGGGATTGGAAAGCATTTTCAGACCAAGGAGAGTCAGGAGACCCTCCACAAATTTGCATCAAAACCCGCGAGCGAGTTTGTGAAAATTCTGGACACATTTGAGAAGCTGAAAGATCTATTCACTGAGCTGCAGAAGAAGATCTATGTCATTGAGGGCACAAGCAAACAGGACCTGACTTCCTTCAACATGGAGCTGTCCTCCAGCGGCATCAGTGCTGACCTCAGCAGGGGCCATGCAGTCGTGGGGGCAGTAGGAGCCAAGGACTGGGCTGGGGGCTTTCTTGACCTGAAGGCAGACCTGCAGGATGACACATTTATTGGGAATGAACCATTGACACCAGAAGTGAGAGCAGGCTATTTGGGTTACACCGTGACCTGGCTGCCCTCCCGGCAAAAGACTTCGTTGCTGGCCTCGGGAGCCCCTCGATACCAGCACATGGGCCGAGTGCTGCTGTTCCAAGAGCCACAGGGCTCTGGATCTGGCATGGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGGGCTCAGGCAGCGGAGGACACTGGAGCCAGGTCCAGACAATCCATGGGACCCAGATTGGCTCTTATTTCGGTGGGGAGCTGTGTGGCGTCGACGTGGACCAAGATGGGGAGACAGAGCTGCTGCTGATTGGTGCCCCACTGTTCTATGGGGAGCAGAGAGGAGGCCGGGTGTTTATCTACCAGAGAAGACAGTTGGGGTTTGAAGAAGTCTCAGAGCTGCAGGGGGACCCCGGCTACCCACTCGGGCGGTTTGGAGAAGCCATCACTGCTCTGACAGACATCAACGGCGATGGGCTGGTAGACGTGGCTGTGGGGGCCCCTCTGGAGGAGCAGGGGGCTGTGTACATCTTCAATGGGAGGCACGGGGGGCTTAGTCCCCAGCCAAGTCAGCGGATAGAAGGGACCCAAGTGCTCTCAGGAATTCAGTGGTTTGGACGCTCCATCCATGGGGTGAAGGACCTTGAAGGGGATGGCTTGGCAGATGTGGCTGTGGGGGCTGAGAGCCAGATGATCGTGCTGAGCTCCCGGCCCGTGGTGGATATGGTCACCCTGATGTCCTTCTCTCCAGCTGAGATCCCAGTGCATGAAGTGGAGTGCTCCTATTCAACCAGTAACAAGATGAAAGAAGGAGTTAATATCACAATCTGTTTCCAGATCAAGTCTCTCATCCCCCAGTTCCAAGGCCGCCTGGTTGCCAATCTCACTTACACTCTGCAGCTGGATGGCCACCGGACCAGAAGACGGGGGTTGTTCCCAGGAGGGAGACATGAACTCAGAAGGAATATAGCTGTCACCACCAGCATGTCATGCACTGACTTCTCATTTCATTTCCCGGTATGTGTTCAAGACCTCATCTCCCCCATCAATGTTTCCCTGAATTTCTCTCTTTGGGAGGAGGAAGGGACACCGAGGGACCAAAGGGCGCAGGGCAAGGACATACCGCCCATCCTGAGACCCTCCCTGCACTCGGAAACCTGGGAGATCCCTTTTGAGAAGAACTGTGGGGAGGACAAGAAGTGTGAGGCAAACTTGAGAGTGTCCTTCTCTCCTGCAAGATCCAGAGCCCTGCGTCTAACTGCTTTTGCCAGCCTCTCTGTGGAGCTGAGCCTGAGTAACTTGGAAGAAGATGCTTACTGGGTCCAGCTGGACCTGCACTTCCCCCCGGGACTCTCCTTCCGCAAGGTGGAGATGCTGAAGCCCCATAGCCAGATACCTGTGAGCTGCGAGGAGCTTCCTGAAGAGTCCAGGCTTCTGTCCAGGGCATTATCTTGCAATGTGAGCTCTCCCATCTTCAAAGCAGGCCACTCGGTTGCTCTGCAGATGATGTTTAATACACTGGTAAACAGCTCCTGGGGGGACTCGGTTGAATTGCACGCCAATGTGACCTGTAACAATGAGGACTCAGACCTCCTGGAGGACAACTCAGCCACTACCATCATCCCCATCCTGTACCCCATCAACATCCTCATCCAGGACCAAGAAGACTCCACACTCTATGTCAGTTTCACCCCCAAAGGCCCCAAGATCCACCAAGTCAAGCACATGTACCAGGTGAGGATCCAGCCTTCCATCCACGACCACAACATACCCACCCTGGAGGCTGTGGTTGGGGTGCCACAGCCTCCCAGCGAGGGGCCCATCACACACCAGTGGAGCGTGCAGATGGAGCCTCCCGTGCCCTGCCACTATGAGGATCTGGAGAGGCTCCCGGATGCAGCTGAGCCTTGTCTCCCCGGAGCCCTGTTCCGCTGCCCTGTTGTCTTCAGGCAGGAGATCCTCGTCCAAGTGATCGGGACTCTGGAGCTGGTGGGAGAGATCGAGGCCTCTTCCATGTTCAGCCTCTGCAGCTCCCTCTCCATCTCCTTCAACAGCAGCAAGCATTTCCACCTCTATGGCAGCAACGCCTCCCTGGCCCAGGTTGTCATGAAGGTTGACGTGGTGTATGAGAAGCAGATGCTCTACCTCTACGTGCTGAGCGGCATCGGGGGGCTGCTGCTGCTGCTGCTCATTTTCATAGTGCTGTACAAGGTTGGTTTCTTCAAACGGAACCTGAAGGAGAAGATGGAGGCTGGCAGAGGTGTCCCGAATGGAATCCCTGCAGAAGACTCTGAGCAGCTGGCATCTGGGCAAGAGGCTGGGGATCCCGGCTGCCTGAAGCCCCTCCATGAGAAGGACTCTGAGAGTGGTGGTGGCAAGGACTGAGCGGCC

**Insert amino acid sequence** **(include tags):**

SRATMKDSCITVMAMALLSGFFFFAPASSYNLDVRGARSFSPPRAGRHFGYRVLQVGNGVIVGAPGEGNSTGSLYQCQSGTGHCLPVTLRGSNYTSKYLGMTLATDPTDGSILACDPGLSRTCDQNTYLSGLCYLFRQNLQGPMLQGRPGFQECIKGNVDLVFLFDGSMSLQPDEFQKILDFMKDVMKKLSNTSYQFAAVQFSTSYKTEFDFSDYVKRKDPDALLKHVKHMLLLTNTFGAINYVATEVFREELGARPDATKVLIIITDGEATDSGNIDAAKDIIRYIIGIGKHFQTKESQETLHKFASKPASEFVKILDTFEKLKDLFTELQKKIYVIEGTSKQDLTSFNMELSSSGISADLSRGHAVVGAVGAKDWAGGFLDLKADLQDDTFIGNEPLTPEVRAGYLGYTVTWLPSRQKTSLLASGAPRYQHMGRVLLFQEPQGSGSG**MVSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTLKFICTTGKLPVPWPTLVTTLTYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMVLLEFVTAAGITLGMDELYK**GSGSGGHWSQVQTIHGTQIGSYFGGELCGVDVDQDGETELLLIGAPLFYGEQRGGRVFIYQRRQLGFEEVSELQGDPGYPLGRFGEAITALTDINGDGLVDVAVGAPLEEQGAVYIFNGRHGGLSPQPSQRIEGTQVLSGIQWFGRSIHGVKDLEGDGLADVAVGAESQMIVLSSRPVVDMVTLMSFSPAEIPVHEVECSYSTSNKMKEGVNITICFQIKSLIPQFQGRLVANLTYTLQLDGHRTRRRGLFPGGRHELRRNIAVTTSMSCTDFSFHFPVCVQDLISPINVSLNFSLWEEEGTPRDQRAQGKDIPPILRPSLHSETWEIPFEKNCGEDKKCEANLRVSFSPARSRALRLTAFASLSVELSLSNLEEDAYWVQLDLHFPPGLSFRKVEMLKPHSQIPVSCEELPEESRLLSRALSCNVSSPIFKAGHSVALQMMFNTLVNSSWGDSVELHANVTCNNEDSDLLEDNSATTIIPILYPINILIQDQEDSTLYVSFTPKGPKIHQVKHMYQVRIQPSIHDHNIPTLEAVVGVPQPPSEGPITHQWSVQMEPPVPCHYEDLERLPDAAEPCLPGALFRCPVVFRQEILVQVIGTLELVGEIEASSMFSLCSSLSISFNSSKHFHLYGSNASLAQVVMKVDVVYEKQMLYLYVLSGIGGLLLLLLIFIVLYKVGFFKRNLKEKMEAGRGVPNGIPAEDSEQLASGQEAGDPGCLKPLHEKDSESGGGKD\*