Construct information sheet

Gene name	**ANXA11**
Uniprot ID	P50995
Region	M1 - D505

Description	Annexin A11
Synonyms	ALS23, ANX11, CAP-50, CAP50.
Construct ID	ANXA11A-c000
Protein sequence	*MHHHHHHSSGVDLGTENLYFQ*S*MSYPGYPPPPGGYPPAAPGGGP WGGAAYPPPPSMPPIGLDNVATYAGQFNQDYLSGMAANMSGTFGG ANMPNLYPGAPGAGYPPVPPGGFGQPPSAQQPVPPYGMYPPPGGN PPSRMPSYPPYPGAPVPGQPMPPPGQQPPGAYPGQPPVTYPGQPP VPLPGQQQPVPSYPGYPGSGTVTPAVPPTQFGSRGTITDAPGFDP LRDAEVLRKAMKGFGTDEQAIIDCLGSRSNKQRQQILLSFKTAYG KDLIKDLKSELSGNFEKTILALMKTPVLFDIYEIKEAIKGVGTDE ACLIEILASRSNEHIRELNRAYKAEFKKTLEEAIRSDTSGHFQRL LISLSQGNRDESTNVDMSLAQRDAQELYAAGENRLGTDESKFNAV LCSRSRAHLVAVFNEYQRMTGRDIEKSICREMSGDLEEGMLAVVK CLKNTPAFFAERLNKAMRGAGTKDRTLIRIMVSRSETDLLDIRSE YKRMYGKSLYHDISGDTSGDYRKILLKICGGNDS*SKGGYGLNDIF* *EAQ**K**IEWHE*
DNA sequence (coding sequence)	ATGCACCATCATCATCATCATTCTTCTGGTGTAGATCTGGG TACCGAGAACCTGTACTTCCAATCCATGAGCTACCCTGGCT ATCCCCCGCCCCCAGGTGGCTACCCACCAGCTGCACCAGGT GGTGGTCCCTGGGGAGGTGCTGCCTACCCTCCTCCGCCCAG CATGCCCCCCATCGGGCTGGATAACGTGGCCACCTATGCGG GGCAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCCAAC ATGTCTGGGACATTTGGAGGAGCCAACATGCCCAACCTGTA CCCTGGGGCCCCTGGGGCTGGCTACCCACCAGTGCCCCCTG GCGGCTTTGGGCAGCCCCCCTCTGCCCAGCAGCCTGTTCCT CCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCCTC CAGGATGCCCTCATATCCGCCATACCCAGGGGCCCCTGTGC CGGGCCAGCCCATGCCACCCCCCGGACAGCAGCCCCCAGGG GCCTACCCTGGGCAGCCACCAGTGACCTACCCTGGTCAGCC TCCAGTGCCACTCCCTGGGCAGCAGCAGCCAGTGCCGAGCT ACCCAGGATACCCGGGGTCTGGGACTGTCACCCCCGCTGTG CCCCCAACCCAGTTTGGAAGCCGAGGCACCATCACTGATGC TCCCGGCTTTGACCCCCTGCGAGATGCCGAGGTCCTGCGGA AGGCCATGAAAGGCTTCGGGACGGATGAGCAGGCCATCATT GACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGAT CCTACTTTCCTTCAAGACGGCTTACGGCAAGGATTTGATCA AAGATCTGAAATCTGAACTGTCAGGAAACTTTGAGAAGACA ATCTTGGCTCTGATGAAGACCCCAGTCCTCTTTGACATTTA TGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGATGAAG CCTGCCTGATTGAGATCCTCGCTTCCCGCAGCAATGAGCAC ATCCGAGAATTAAACAGAGCCTACAAAGCAGAATTCAAAAA GACCCTGGAAGAGGCCATTCGAAGCGACACATCAGGGCACT TCCAGCGGCTCCTCATCTCTCTCTCTCAGGGAAACCGTGAT GAAAGCACAAACGTGGACATGTCACTCGCCCAGAGAGATGC CCAGGAGCTGTATGCGGCCGGGGAGAACCGCCTGGGAACAG ACGAGTCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGG GCCCACCTGGTAGCAGTTTTCAATGAGTACCAGAGAATGAC AGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCG GGGACCTGGAGGAGGGCATGCTGGCCGTGGTGAAATGTCTC

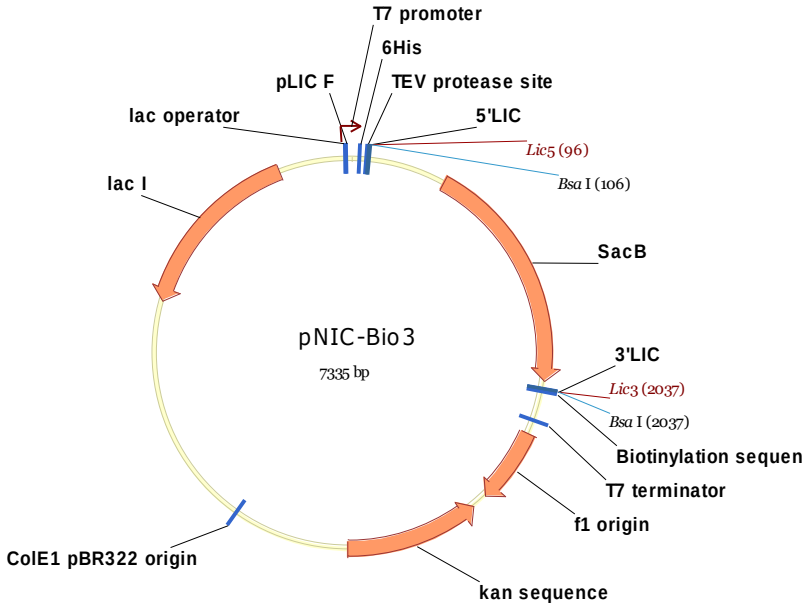
Opher Gileadi, Structural Genomics Consortium
opher.gileadi@sgc.ox.ac.uk

Construct information sheet

	AAGAATACCCCAGCCTTCTTTGCGGAGAGGCTCAACAAGGC CATGAGGGGGGCAGGAACAAAGGACCGGACCCTGATTCGCA TCATGGTGTCTCGCAGCGAGACCGACCTCCTGGACATCAGA TCAGAGTATAAGCGGATGTACGGCAAGTCGCTGTACCACGA CATCTCGGGAGATACTTCAGGGGATTACCGGAAGATTCTGC TGAAGATCTGTGGTGGCAATGACAGCAGTAAAGGTGGATAC GGCCTGAATGATATCTTTGAAGCGCAGAAGATTGAATGGCA TGAATGA
Construct accession No.	

Vector information:

pNIC-Bio3	
Antibiotic resistance	Kanamycin, 50 μg/ml
Promoter	T7 - lacO
N-terminal fusion – seq.	MHHHHHHSSGVDLGTENLYFQ*SM (* - TEV cleavage site)
N-terminal fusion – MW	2684.1 Da including Met (2465.8 Da removed by TEV cleavage)
C-terminal fusion – seq.	GSKGGYGLNDIFEAQ**K***IEWHE (* biotinylation site)
C-terminal fusion - MW	2396.57 Da, +226 Da for biotinylation
Protease cleavage	TEV protease
Preferred expression host	DE3 hosts: BL21, Rosetta, etc. MUST express T7 RNA polymerase. For effective biotinylation, the host should overexpress BirA (e.g. from plasmid pCDF-BIRA, GenBank: JF914075)
Genebank: JN792439	Reference: PMID: 22027370



Opher Gileadi, Structural Genomics Consortium
opher.gileadi@sgc.ox.ac.uk