

O'Geen, S1 Fig

hNgAgo

NLS (SV40): aa 2-9

3X Flag: aa 15-36

hNgAgo: aa 65-764

NLS (Neoplasmin): aa 977-992

P2A cleavage peptide: aa 999-1017

MPKKKRKVGSGGSDYKDHDGDYKDHDIDYKDDDDKGGGSGGSGTGGSGGSGGSGGSGGSGRPMTVIDLDSSTTTADE
LTSGHTYDISVTLTGVIYDNTDEQHPRMSLAFEQDNGERRYITLWKNTPKDVFTYDYATGSTYIFTNIDYEVKDGyen
LTATYQTTVENATAQEVGTTDEDETFAGGEPLDHHLDDALNETPDDAETESDSGHVMTSFASRDQLPEWTLHTYTLTA
TDGAKTDTEYARRTLAYTVRQELYTDHDAAPVATDGLMLLTPEPLGETPLDLDCGVRVEADETRTLDYTTAKDRLLAR
ELVEEGLKRSLWDDYLVRGIDEVLSKEPVLTCDEFDLHERYDLSVEVGHSGRAYLHINFRHRFVPKLTLADIDDDNIY
PGLRVKTTYRPRRGHIVWGLRDECATDSLNTLGNQSVVAYHRNNOPTINTDLLDAIEAADRRVETRRQGHGDDAVSF
PQELLAVEPNTHQIKQFASDGFHQQARSKTRLSASRCSEKAQAFERLDPVRLNGSTVEFSSEFFFTGNNEQQLRLLYE
NGESVLTFRDGARGAHPDETFSKGI VNPPESEFVAVVLPPEQADTCKAQWDTMADLLNQAGAPPTRSETVQYDAFSSP
ESISLNVAGAI DPSEVDAAFFVLPDQEGFADLASPTETYDELKALANMGIYSQMAYFDRFRDAKIFYTRNVALGLL
AAAGGVAFTTEHAMPGDADMFIGIDVSRSPEDGASGQINIAATATAVYKDGITLGHSSSTRPQLGEKLOSTDVDRD
NAILGYQVVTGESPTHIVHRDGMFNEEDLPATEFLNEQGVYDIVEIRKQPQTRLLAVSDVQYDTPVKSIAAINQNE
PRATVATFGAPEYLATRDGGGLPRPIQIERVAGETDIETLTRQVYLLSQSHIQVHNSTARLPITAYADQASTHATKG
YLVQTFGAFESNVGFLGGSGGSGGSGGSGGSGSASGGGSGGSGKRPAAATKKAGQAKKKKGGSGSGATNFSLLKQAGDVEEN
PGPAAA

hTtAgo

NLS (SV40): aa 2-9

3X Flag: aa 15-36

hTtAgo: aa 65-749

NLS (Neoplasmin): aa 775-790

P2A cleavage peptide: aa 797-815

MPKKKRKVGSGGSDYKDHDGDYKDHDIDYKDDDDKGGGSGGSGTGGSGGSGGSGGSGGSGRPMNHLGKTEVFLNRF
ALRPLNPEELRPWRLEVVLDPGGREEVYPLLAQVARRAGGVTVRMGDGLASWSPPEVLVLEGLTARMGQTYAYRLYP
KRRRPLDPKDPGERSVLSALARRLLQERLRRLEGVWVEGLAVYRREHARGPGWRVLLGGAVLDLWVSDSGAFLLLEVDP
YRILCEMSLEAWLAQGHPLPKRVRNAYDRRTWELLRLGEEDPKELPLPGGLSLLDYHASKGRLOGREGGRVAWVADPK
DPRKPIPHLTGLLVPVLTLEDLHEEEGSLALSIPWEERRRRRTREIASWIGRRLGLGTPEAVRAQAYRLSIPKLMGRR
VSKPADALRVGFYRAQETALALLRLDGAQGWPEFLRRALLRAFGASGASLRLHTLHAHPSQGLAFREALRKAKEEGVQ
AVLVLTTPMAWEDRNRLKALLLREGLPSQILNVPLREEERHRWENALLGLLAKAGLQVVALSGAYPAELAVGFDAGGR
ESFRFGGAACAVGGDGGHLLWTLPEAQAGERIQEVVWDLLEETLWAFRRKAGRLPSRVLLLRDGRVPQDEFALALEA
LAREGIAYDLVSVRKS GGGRVYPVQGRADGLYVPLEDKTFLLLTVHRDFRGTTPRPLKLVHEAGDTPLEALAHQIFHL
TRLYPASGFAPRPLPAPLHLADRLVKEVGRIGIRHLKEVDREKLFFVGGSGGSGGSGGSGGSGSASGGGSGGSGKRPAA
T
KKAGQAKKKKGGSGSGATNFSLLKQAGDVEENPGPAAA

S1 Fig. Protein sequences of hNgAgo and hTtAgo used in this study.