Table S2	Primers, RNAi, siRNA and CEP90-GFP RNAi resistant sequences	
	Primer Paramecium	
Constructs	**Primers**	
CEP90a-GFP	CEP90a sens	caaatcattaattaaataaatcaactagtATGAGTACGAAGAGAAAAGACATCATAAAAC
	CEP90a anti-sens	CTTCTCCTTTAGACATgcgtacctcgagTCCTCCTCCTTTATTCTGTTTTTGTTTC
CEP90a-GFP RNAi resistant	CEP90a-GFP RNAi resistant sens A	GGATAGAGTATAGAAATATCTATGAAGATACATTGGCTAATTTGAAAGCCACAAAACATGAAAACG
	CEP90a-GFP RNAi resistant antisens A	CGTTTTCATGTTTTGTGGCTTTCAAATTAGCCAATGTATCTTCATAGATATTCTATACTCTATCC
	CEP90a-GFP RNAi resistant sens B	GGATAAAACCCACTAACCTCACTCCTACCTCGTCGCCCATATTGAGGAAAAGGATAGAGAAATTTTG
	CEP90a-GFP RNAi resistant antisens B	CAAAATTTCTCTATCCTTTTCCTCAATATGGGCGACGAGGTAGGAGTGAGGTTAGTGGGTTTTATCC
RNAi CEP90	CEP90a sens	CCATTTAAAAAGGAAGGGGAATTTTAGAAACTTTGGCCAATCTTAAAGCTACAAAGCATG
	CEP90a antisens	CACCGCGGTGGCGGCCGCTCTAGAACTAGTTACGAGATAGGAATGActaaaataaaag
	CEP90b sens	CCATTTAAAAAGGAAGGGGAATTTTAGAAACTTTGGCCAATCTTAAAGCTACAAAGCATG
	CEP90b antisens	CATGCTTTGTAGCTTTAAGATTGGCCAAAGTTTCTAAAATTCCCCTTCCTTTTTAAATGG
	RNAi *Paramecium*	
RNAi CEP90a		CTTTGGCCAATCTTAAAGCTACAAAGCATGAAAATGAAATGTTAAGGGAGAAGATCAACGTGTTGAAGGCAGAGTATTATAAGTGTTAGGTAGAGGCTAAGGAATAGATGAGCAGCATAAATGCTTAATTGCAAGTTGCAAAAGAACAATTAACTAATTATGAAGGAATTGAAAAAGAAATTGATGATGC CATAATGAAATCAGCAGGCAATGAATATGATGCAATGAATCCTTTATTGGGATTCATGGGCACTGTACCTACATCTTCAAAAAGAAGGATTCAACAGGCATTAAATCTCGCTTAGAGATTGCAAGCAAAATAAAGAGAATCAGAGGAATTGCAAAGACAATTAAGAGATAAGTCATAAGAGATTGAGAGA CTATAGGAAGAGACCAAATTATAAAGAGATGTACTTGACAAAACACATTAACCgtaaatattcattaaatatcttttatttttagTCATTCCTATCTCGTA
RNAi CEP90b		GATTCTGTATCCATAGCTGATATTGAGAATTTTTAATAGAAGAGACATAATAGAGGAGGGGATACTCACGACACAGTCAATATGAAAAATgtattataattgattcaataatagAATTATTCTTCTGTAGTGGGCATGCAAGAGAAATAAATAGCATTTCTAAATGCAGAAATAAAGCGGATTCAAGCAGCTAACGATGCT GATAGACAAAGGATTTTTGCTAATCATAGAATTGAAACTGATAAGCTTTTAAGTGAAATCAAACAACTTAAGTCTAAGATGATATATTAAGAATCTCAATTGCCAGGAATAAGGGAGGCTTTGGCATAAGTCAGAGACATGTTAGCTGGGTTAGTTCCAGAGGTTGTTTATTTGAGATTGAGAGATATGAA TGAGAAGGAGATGCCCATCTAAGATTGGGTGCTGGTTTAGGTTTGGGAGATTGTGTATCCATTTAAAAAGGAAGGGGAATTTTAGAAA
	RNAi resistant CEP90-GFP	
CEP90a-GFP RNAi resistant		ATGAGTACGAAGAGAAAAGACATCATAAAACTTATGAAATCGATGAATATAGATCCAACCACATTTTCTGAGGAAGATATAAGATAATTTGAATAAGGCTAAGTGATGATGAGTGACAGTGAATCAGATAGTATGAGGGATTCGGTATCCATAGCTGATATTGAGAATTATCAATAGACTAAACATAACA GAGGGGGGAACACTCATGATACAGTCAATATGAAAAATGTATTATTGTAATCGATCCATTTTTAGAATTATTCATCCGTTGTGGGCATGCAGGAAAAATAAATAGCTTTTCTAAATGCTGAGATCAAAAGGATCCAAGCAGCCAATGACGCTGATAGACAAAGAGTTTTTGCTAATCATCGAATTGAAACA GATAAACTTTTAAGTGAAATCAAATAACTAAAGTCTAAGATGATCTATCAAGAGTCTCAATTACCAGGCATAAGAGAAGCTTTGGCTTAAGTTAGAGATATGCTTGCTGGATTGGTCCCAGAGGCTGTTTATCTGAGGTTGCGAGATATGAATGAGAAGGAAATCGCCATTCAAGATTGGGTATTGGTTT GGTTTGGGAAATTGTGTATCCATTCAAAAAGGAGGGGGAGTTTTAGAAAAAGGAAATATTGGCTTTAAGGGAAGAACTCAGATAGATAACAGAGAAGCATTAATTCTTATTGAATGATTTGGAACATGGCTAAAAGATGATGGTAGACAGAGAAGAGGATATTAGAAGACATAAATTAAATTATGATAAT GCTAGAAAGGCTTTGGAGTTAGAATTAACAAAATCTTAAGAGGAATTAGCCCTGTTGAGAGAGAAGGGAGCAAGATTTGATGAATTAAGTAGGGATTATAAGAGATTGGAGTAAGAGAAGTTTTTATTGGAAGAGAAGGCTGGTTTCTATCAAAATAATTAAGCCGGAGACAAGGCAGGTGATTAATAC AAGGCATAGGATGACGCCAAGAGGAAGGGAGACCTTTTGCAATAAGACAAGGAATATTTGACTAAGGAGAATATTTAACTTTTGGAGAAGGTTAAGAGATTGGAGGACAAATTAGATAGGACAGAGAAGGAGTATTTGGAAGCAAAAAACTAAGCTTAAGAATATCTATTTTAATTACTCAATTCTAAAA CAGATTAGACTCAGGCTTATGAAAAAAGAATTTACTCAGAAATTGCAGATCTTAAAGAGAAGCATCATCATGAAATTGGCAAATAGAATTTAGTTGATATTTATGAGACTCAAATCAAATTCTTGAAGGATGCAAAGGAGGAAATTTAACTTCGAAAAGATAATCTAGAAGGGCAAGTGAAGGA AAAATCAACTTTATATGATCATTTGCTAATTGATTATAGAAACTTATAAAGAAAATTAGATGGGGACTTATCTGAATAGAGAATTCAATTAAGATTGAAGGTGGAAGAGTTGGATAGAGTATAGAATATCTATGAAGATA**CATTGGCTAATTTGAAAGCCACAAAACATGAAAACGAGATGTTGAGGG** **AAAAAATCAATGTCTTAAAAGCCGAATATTATAAATGCTAAGTCGAGGCCAAGGAATAAATGTCAAGCATCAACGCTTAACTTTAAGTCGCCAAAGAATAATTGACTAACTATGAAGGAATCGAAAAGGAAATCGATGATGCTATTAT** **ACCCTTTATTGGGATTCATGGGAACAGTCCCAACATCATCTAAAAGGAGAATTCAATAAGCATTGAACCTCGCCTAAAGACTTTAAGCAAAGCAAAGAGAAAGCGAAGAGCTTTAAAGACAATTGAGAGACAAATCACAAGAAATCGAGAGACTTTAAGAGGAAACCAAATTACAAAGA** **GATGTCTTGGATAAAACCCACTAACCTCACTCCTACCTCGTC**ATGAGTACGAAGAGAAAAGACATCATAAAACTTATGAAATCGATGAATATAGATCCAACCACATTTTCTGAGGAAGATATAAGATAATTTGAATAAGGCTAAGTGATGATGAGTGACAGTGAATCAGATAGTATGAGGGATTCGGT ATCCATAGCTGATATTGAGAATTATCAATAGACTAAACATAACAGAGGGGGGAACACTCATGATACAGTCAATATGAAAAATGTATTATTGTAATCGATCCATTTTTAGAATTATTCATCCGTTGTGGGCATGCAGGAAAAATAAATAGCTTTTCTAAATGCTGAGATCAAAAGGATCCAAGCAGCCAATG ACGCTGATAGACAAAGAGTTTTTGCTAATCATCGAATTGAAACAGATAAACTTTTAAGTGAAATCAAATAACTAAAGTCTAAGATGATCTATCAAGAGTCTCAATTACCAGGCATAAGAGAAGCTTTGGCTTAAGTTAGAGATATGCTTGCTGGATTGGTCCCAGAGGCTGTTTATCTGAGGTTGCGAGAT ATGAATGAGAAGGAAATGCCCATTCAAGATTGGGTATTGGTTTAGGTTTGGGAAATTGTGTATCCATTCAAAAAGGAGGGGGAGTTTTAGAAAAAGGAAATATTGGCTTTAAGGGAAGAACTCAGATAGATAACAGAGAAGCATTAATTCTTATTGAATGATTTGGAACATGGCTAAAAGATGATGGTAG ACAGAGAAGAGGATATTAGAAGACATAAATTAAATTATGATAATGCTAGAAAGGCTTTGGAGTTAGAATTAACAAAATCTTAAGAGGAATTAGCCCTGTTGAGAGAGAAGGGAGCAAGATTTGATGAATTAAGTAGGGATTATAAGAGATTGGAGTAAGAGAAGTTTTTATTGGAAGAGAAGGCTGGTT TCTATCAAAATAATTAAGCCGGAGACAAGGCAGGTGATTAATACAAGGCATAGGATGACGCCAAGAGGAAGGGAGACCTTTTGCAATAAGACAAGGAATATTTGACTAAGGAGAATATTTAACTTTTGGAGAAGGTTAAGAGATTGGAGGACAAATTAGATAGGACAGAGAAGGAGTATTTGGAAGCAA AAAACTAAGCTTAAGAATATCTATTTTAATTACTCAATTCTAAAACAGATTAGACTCAGGCTTATGAAAAAAGAATTTACTCAGAAATTGCAGATCTTAAAGAGAAGCATCATCATGAATTGGAAATTGCCAAATAGAATTTAGTTGATATTTATGAGACTCAAATCAAATTCTTGAAGGATGCAAAGGAG GAAATTTAACTTCGAAAAGATAATCTAGAAGGGCAAGTGAAGGAAAAATCAACTTTATATGATCATTTGCTAATTGATTATAGAAACTTATAAAGAAAATTAGATGGGGACTTATCTGAATAGAGAATTCAATTAAGATTGAAGGTGGAAGAGTTGGATAGAGTATAGAATATCTATGAAGATACATTGG CTAATTTGAAAGCCACAAAACATGAAAACGAGATGTTGAGGGAAAAATCAATGTCTTAAAAGCCGAATATTATAAATGCTAAGTCGAGGCCAAGGAATAAATGTCAAGCATCAACGCTTAACTTTAAGTCGCCAAAGAATAATTGACTAACTATGAAGGAATCGAAAAGGAAATCGATGATGCTATTAT GAAGTCAGCCGGAAACGAATACGATGCTATGAACCCTTTATTGGGATTCATGGGAACAGTCCCAACATCATCTAAAAGGAGAATTCAATAAGCATTGAACCTCGCCTAAAGACTTTAAGCAAAGCAAAGAGAAAGCGAAGAGCTTTAAAGACAATTGAGAGACAAATCACAAGAAATCGAGAGACTTTAA GAGGAAACCAAATTACAAAGAGATGTCTTGGATAAAACCCACTAACCTCACTCCTACCTCGTCGCCCATATTGAGGAAAAGGATAGAGAAATTTTGAAATATAAATCCCTTTTAAAGAAAATGGATTAGGATTATTAGATCCTAAAAGCAGAAAACGATGATGTAGCCAATGTAATTATTAGTGTATAAAT TTAATAGAGATTCATGCGAGCTGAAGAGGATCTATAGAGATTGAGAATTAAAAGACAGAACCTACAAAACATTTAGAACATTTTGATTGGTATTGCCACTGGTAGTTAGAATGATATGAGATAAAATCTGAGAAGTGCCATAAATGAGATGTCGGAAGCCTTAAATACAAAGACATATATTGATCCTCAAA GTGCGATCTAAAAAAAGGGTATGAATTTGCATTAATTGCAAGGTGGAATTCAAAGTAGTTAATAAAAATAGGAAGATGGTCCTTCTTGGTATTCAAAATTGAAACAAAAACAGAATAAAGGAGGAGGACTCGAGGTACGCATGTCTAAAGGAGAAGAATTATTCACTGGTGTTGTTCCAATTCTTGTTGA ACTTGATGGTGATGTTAATGGACATAAATTTTCTGTTTCTGGTGAGGGTGAAGGTGATGCAACATATGGAAAATTAACCTTAAAATTTATTTGCACTACTGGAAAATTACCTGTTCCATGGCCAACACTTGTCACTACTTTAACTTATGGAGTTCAATGTTTTTCAAGATACCCTGATCATATGAAACAACAT GACTTTTTCAAATCTGCCATGCCAGAAGGATATGTCCAAGAAAGAACTATATTCTTCAAAGATGATGGAAACTACAAGACAAGAGCTGAAGTCAAATTTGAAGGAGATACCCTTGTCAATAGAATTGAGTTAAAAGGAATTGATTTTAAAGAAGATGGAAACATTTTAGGACATAAATTGGAATACAACTA TAACTCACATAATGTATACATCATGGCAGACAAACAAAAAAATGGAATCAAAGTCAACTTCAAAATTAGACACAACATTGAAGATGGATCAGTTCAATTAGCAGACCATTATCAACAAAATACTCCAATTGGAGATGGCCCTGTTTTATTACCAGACAACCATTACTTATCAACACAATCTGCCTTATCAAA AGATCCAAATGAAAAGAGAGACCATATGGTTTTATTAGAGTTTGTAACTGCTGCTGGAATTACACATGGCATGGATGA
	siRNA mammalian cells	
siRNA CEP90 #1	siGENOME SMARTpool siRNA D-020125-01, PIBF1 Dharmacon	GAGAUUAGACAACCAAUUG
	siGENOME SMARTpool siRNA D-020125-02, PIBF1 Dharmacon	ACAGGUAUCUCAUUGAAUC
	siGENOME SMARTpool siRNA D-020125-03, PIBF1 Dharmacon	UCGUUAAGAUGCAUAGUAA
	siGENOME SMARTpool siRNA D-020125-04, PIBF1 Dharmacon	GAUCAGCUCUUAGACAGGU
siRNA CEP90 #2	based on siRNA CEP90#1 (Kodani *et al.* 2015) Dharmacon	TCTGCAAGAGGAAACAGCAAGAAAT
siRNA FOPNL #1	based on siRNA FOR20#2 (Sedjai et al. 2010) Dhamacon	GTATTATAAAGGCCCTTAA
siRNA FOR20 #2	siGENOME SMARTpool siRNA D-016243-01, FOPNL Dharmacon	GUACUAACAUUGAAGAUCU
	siGENOME SMARTpool siRNA D-016243-02, FOPNL Dharmacon	GCCAAUGGAUGACCACCUA
	siGENOME SMARTpool siRNA D-016243-03, FOPNL Dharmacon	GAUCCGAGCUGAAGUUUUC
	siGENOME SMARTpool siRNA D-016243-04, FOPNL Dhamacon	GCCAUUUCUUGCGUGGAA
scrambled control	siGENOME Non-Targeting siRNA Pool #2 Dharmacon	UAAGGCUAUGAAGAGAUAC
		AUGUAUUGGCCUGUAUUAG
		AUGAACGUGAAUUGCUCAA
		UGGUUUACAUGUCGACUAA