

Supplementary Table S2. Taxonomic distribution of orthologues of APC/C main targets. Accession numbers are indicated. Acc Num NA indicates that the accession number of the corresponding sequence is not available. Question marks indicate the presence of highly divergent sequences, however based on sequence comparison only it was not possible to determine if they represent homologues.

			Core complex				Loading complex		Cohesion establishment	Maintenance		Dissolution	
			Smc1	Smc3	Scs1	Scs3	Scs2	Scs4	Ecc1	Pds5	Wpl1/Rad61	Separase	Securin
Opisthokonta	Choanoflagellata	<i>Monosiga brevicollis</i>	Acc Num NA	XP_001746007	XP_001743156	XP_001744374	XP_001749937			XP_001745460		XP_001747241	
		<i>Salpingoeca rosetta</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA		Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
	Metazoa	<i>Trichoplax adhaerens</i>	Acc Num NA	XP_002116802	Acc Num NA	XP_002111813	XP_002114243	Acc Num NA	XP_002110319	XP_002112303	XP_002112136	?	
		<i>Homo sapiens</i>	NP_006297	NP_005436	NP_001130038	NP_006594 NP_005853 NP_036579	DAA05331	NP_056144	NP_443143 NP_001017420	NP_001093870	NP_055860	NP_036423	NP_004210
		<i>Danio rerio</i>	AAT68048	NP_999854	NP_955889	XP_686812 XP_692954 CAQ15056	XP_001920203	XP_001334031	XP_002663315 NP_001003872	AAH55602	XP_688605	XP_001337869	XP_695066
		<i>Branchiostoma floridae</i>			XP_002602455	XP_002603307	XP_002587265	XP_002609698	XP_002586734	XP_002611624	XP_002610333	XP_002607627	
		<i>Drosophila melanogaster</i>	NP_651211	NP_523374	AF186473_1	CAA74654	ABX00777	NP_650428	NP_648106 AAL28680	NP_610719	XP_002610333	NP_523935	NP_476678
		<i>Lottia gigantea</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	XP_394668	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
		<i>Apis mellifera</i>	XP_395059	XP_393700		XP_001123117	XP_001120878	XP_394668	XP_624624	XP_623860	XP_395593		
		<i>Caenorhabditis elegans</i>	NP_001040658	NP_499453	NP_509262	NP_506193	NP_493687	NP_492228	NP_498625	NP_497865	NP_500566	NP_491160	
		<i>Brugia malayi</i>	XP_001894059	XP_001899737	XP_001895586	XP_001901686	EDP30362	XP_001892554	XP_001897363	XP_001895635	XP_001892742	XP_001894870	
		<i>Nematostella vectensis</i>	XP_001641659	XP_001626236	Acc Num NA	Acc Num NA	Acc Num NA	XP_001624621	XP_001639589	XP_001641695	XP_001626696	XP_001635666	
		<i>Helobdella robusta</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
		<i>Daphnia pulex</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
	Capsaspora	<i>Capsaspora owczarzaki</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
	Fungi	<i>Cryptococcus neoformans</i>	XP_568851	XP_775936	XP_570356	XP_567136	XP_566838		XP_569515	XP_567466	XP_778346	XP_569001	
		<i>Ustilago maydis</i>	XP_759390	XP_760536	XP_758738	XP_758200	XP_761813			XP_759887	XP_760279	XP_759409	
		<i>Aspergillus fumigatus</i>	EDP52912	XP_755741	EDP54236	EDP55114	XP_749676	XP_747613	XP_755006	EDP55189	EAL92045	XP_753668	
		<i>Schizosaccharomyces pombe</i>	NP_596049	NP_593260	NP_588151	XP_001713063	NP_592917	NP_593137	NP_596778	NP_593535	NP_595195	NP_587903	NP_010398
		<i>Saccharomyces cerevisiae</i>	NP_116647	NP_012461	NP_010281	NP_012238	NP_010466	EDN63124	NP_116683	NP_013793	NP_010297	EDN61688	NP8595904
		<i>Neurospora crassa</i>	XP_961409	XP_957879	XP_964217	XP_960650	XP_961787	XP_961389		XP_956688	XP_955967	XP_956590	
		<i>Encephalitozoon cuniculi</i>	NP_584776	XP_955745		NP_584770						NP_585963	
		<i>Enterocytozoon bieneusi H348</i>	XP_002649733									XP_001827760	
		<i>Nosema ceranae BRL01</i>		XP_002995833		XP_002996063						XP_002996251	
		<i>Encephalitozoon intestinalis ATCC 50506</i>	XP_003072739	XP_003073682		XP_003072732						XP_003073153	
		<i>Batrachochytrium dendrobatidis</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA		Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
		<i>Spizellomyces punctatus</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
Apusozoa		<i>Thecamonas trahens</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA		Acc Num NA			Acc Num NA	
Amoebozoa		<i>Dictyostelium discoideum</i>	XP_629977	XP_643274	XP_642955	XP_638963	XP_639229		XP_641425	XP_643624		XP_635802	
		<i>Entamoeba histolytica</i>	XP_656581	XP_655216	XP_657283							XP_651118	
Excavata	Metamonada	<i>Giardia intestinalis</i>	EET00911	EET02057								CAD67965	
		<i>Trichomonas vaginalis</i>	XP_001329543	XP_001319807 XP_001328416	XP_001329298	ABC61972	XP_001581890			XP_001329031		XP_001582914	
	Euglenozoa	<i>Leishmania major</i>	XP_843456	XP_001681030	XP_001687586	XP_001686731			XP_001682791	XP_001681555		XP_001682914	
		<i>Leishmania infantum</i>	XP_001469160	XP_001463342	XP_001463072	XP_001469747			XP_001465213	XP_001463886		XP_001465288	
		<i>Trypanosoma cruzi</i>	XP_817950	XP_815055	XP_819913	XP_809775			XP_818808	XP_821239		XP_809313	
		<i>Trypanosoma brucei</i>	XP_827441	XP_845021	XP_846310	XP_822844			XP_001218868	XP_828716		CBH09022	
	Heterolobosoa	<i>Naegleria gruberi</i>	XP_002682487	XP_002670278	XP_002679151	XP_002673603	XP_002683017		XP_002680835	XP_002671795		Acc Num NA	
Alveolata	Ciliata	<i>Tetrahymena thermophila</i>	XP_001025504	XP_001008623								XP_001013249	
		<i>Paramecium tetraurelia</i>	XP_001426830	XP_001443869								XP_001458342	
		<i>Oxytricha trifallax</i>	?	?	?								
	Apicomplexa	<i>Plasmodium yoelii</i>	XP_726100	XP_725208		XP_730250						XP_726982	
		<i>Plasmodium falciparum</i>	XP_001347988	XP_001351448		XP_001348712						XP_002808832	
		<i>Cryptosporidium hominis</i>	XP_666991	XP_665748	XP_668359							XP_665802	
		<i>Babesia bovis</i>	XP_001610390	XP_001611424		XP_001609890						Acc Num NA	
		<i>Theileria annulata</i>	XP_954442			XP_952886							
		<i>Toxoplasma gondii</i>	XP_002368310	AAZ57430								EEE32077	
Heterokonta	Blastocystae	<i>Blastocystis hominis</i>	CBK21095	CBK23979								CBK21518	
	Phaeophyceae	<i>Ectocarpus siliculosus</i>	CBN77803	CBN79764	CBJ33525	CBJ33097	CBJ31249		CBJ31471	CBJ25477		CBJ25668	
		<i>Phytophthora ramorum</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA		Acc Num NA	Acc Num NA			
	Oomycota	<i>Phytophthora infestans</i>	XP_002998013	XP_002997684	XP_002902993	XP_002904221	XP_002906797		XP_002902720	XP_002996972		XP_002906565	
		<i>Thalassiosira pseudonana</i>	XP_002296149		XP_002292911		XP_002287148		XP_002287134	XP_002291327		XP_002286533	
	Bacillariophyta	<i>Phaeodactylum tricoratum</i>	XP_002177808	XP_002184568	XP_002178341		XP_002185061		XP_002177583			XP_002182854	
		<i>Aureococcus anophagefferens</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA						Acc Num NA	
Plantae	Viridiplantae	<i>Oryza sativa</i>	NP_001067404	NP_001045803	NP_001053148	NP_001054841	EEE66449	CAD40351	NP_001055381	EEE55732	NP_001064956	EEC74078	
		<i>Arabidopsis thaliana</i>	NP_191027	NP_001077968	NP_568586	NP_566119	NP_197058	BAF00935	NP_194868	NP_177883 NP_001119390	NP_176298	NP_194028	
		<i>Chlamydomonas reinhardtii</i>	XP_001700607	XP_001698278	XP_001696730	XP_001699607	XP_001697971			XP_001690069		XP_001689575	
		<i>Ostreococcus tauri</i>	XP_003078284	XP_003081202	XP_003079934	XP_003074534	XP_003075000	XP_003082234	XP_003081729	XP_003074597	XP_003081951	XP_003074856	
		<i>Ostreococcus lucimarinus</i>	XP_001416713	XP_001419553	XP_001418499	XP_001415613	XP_001416473	XP_001420595	XP_001420193	XP_001415641	XP_001420300	XP_001416421	
		<i>Physcomitrella patens</i>	XP_001767264	XP_001784554	XP_001765550	XP_001776000		XP_001773150	XP_001763476	XP_001778595	XP_001781920	XP_001759110	
		<i>Chlorella vulgaris</i>	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA		Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA	
		<i>Micromonas pusilla</i>	XP_003055298	XP_003056807	XP_003062115	XP_003056469	XP_003056333	XP_003055504	XP_003063893	XP_003062863			
		<i>Selaginella moellendorffii</i>	XP_002990356	Acc Num NA	XP_002985553	XP_002966356	XP_002981324	Acc Num NA	XP_002960198	XP_002990499	XP_002977658	XP_002975469	
	Rhodophyta	<i>Cyanidioschyzon merolae</i>	Acc Num NA	Acc Num NA	CML311C	CMO331C			CMT193C			Acc Num NA	
		<i>Galdieria sulphuraria</i>	Acc Num NA	Acc Num NA	?	Acc Num NA	?		Acc Num NA	Acc Num NA		Acc Num NA	
Haptophyta		<i>Emiliania huxleyi</i>	Acc Num NA	?	Acc Num NA	Acc Num NA	Acc Num NA		?	Acc Num NA		Acc Num NA	