

Supplementary Table S1. Taxonomic distribution of orthologues of APC subunits and co-activators. 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 subunits															Co-activators							
			Catalytic arm			Structural complex			TPR arm and associated proteins									Unknown	Mitosis co-activators			Meiotic co-activator			
			Apc10	Apc11	Apc2	Apc1	Apc4	Apc5	Apc8	Apc6	Apc3	Apc7	Apc12	Apc13	Apc16	Apc9	Apc15	Apc14	CDC20	CDH1	uncertain	Mfr1	Ama1	Rap	Cortex
Opisthokonta	Choanoflagellata	Monosiga brevicollis	XP_001746604		XP_001749209	XP_001742225	XP_001744221		XP_001747393	XP_001745786	XP_001747295	XP_001744593						XP_001747841	Acc Num NA						
		Salpingoeca rosetta	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	Trichoplax adhaerens	XP_002109549	XP_002115875	XP_002114958	XP_002109033	XP_002111892	XP_002109398	XP_002109327	XP_002115543	XP_002110345	XP_002107763					XP_002115489	XP_002114324	XP_002114232						
		Homo sapiens	NP_055700	NP_057560	NP_037498	NP_073153	NP_037499	NP_057321	AAC70920	NP_001072113	EAW57688	Q9UJX3	NP_056206	NP_775744				NP_001246	NP_057347						
		Danio rerio	XP_001923028	NP_001091950	CAX13097	CAX12586	NP_001008589	NP_955916	NP_957227	ABC87083	NP_958857	NP_001107057	NP_001004005	XP_697958	NP_001017878			CAN88634	XP_001922908	NP_956547					
		Branchiostoma floridae	XP_002598258	XP_002606314	XP_002600222	XP_002610275	XP_002609002	XP_002610040	XP_002590511	XP_002603477	XP_002598631	XP_002605850	XP_002590834	XP_002590107				AAO85336	XP_002603872						
		Drosophila melanogaster	NP_611223	NP_001097122	NP_611862	NP_573025	NP_572522	AAM51081	NP_610036	NP_477397	NP_648093	AAAS7340	AAL39766	NP_609940	NP_001033954			AAQ23567	NP_611854				NP_524852	NP_523494	
		Lottia gigantea	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	Acc Num NA	Acc Num NA	Acc Num NA			Acc Num NA	Acc Num NA						
		Apis mellifera	XP_396738	XP_001122138	XP_395411	XP_001122449	XP_393301	XP_393771	XP_396943	XP_623316	Acc Num NA	XP_396165	XP_001122028	XP_001120410				XP_624567	XP_623291						
		Caenorhabditis elegans	NP_001021777	XP_777934	NP_498762	NP_496383	NP_499074	NP_499485	NP_497203	NP_495712	NP_001021714	NP_500116						NP_495051	NP_496075						
		Brugia malayi	XP_001901978	XP_001901276	XP_001894849	XP_001893638	XP_001900733	XP_001893623	XP_001900333	XP_001900464	XP_001898600	XP_001896953	XP_001898246	XP_001897845				XP_001893850	XP_001899995						
		Nematostella vectensis	XP_001630621	XP_001628272	XP_001625156	XP_001632264	XP_001624909	XP_001626465	XP_001635295	XP_001637375	XP_001635851	XP_001633228						XP_001625800	XP_001637197						
		Helobdella robusta	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		Acc Num NA				Acc Num NA	Acc Num NA						
		Daphnia pulex	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	Acc Num NA	Acc Num NA				Acc Num NA	Acc Num NA						
	Capsaspora	Capsaspora owczarzaki	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	Acc Num NA					Acc Num NA	Acc Num NA						
	Fungi	Cryptococcus neoformans	XP_571694	XP_777934	XP_568721	XP_570920	XP_572593	XP_776363	XP_569792	XP_570972	XP_566728							XP_572594	XP_572082						
		Ustilago maydis	XP_756827	XM_753342	XP_759373	XP_758574	XP_761900	XP_756294	XP_756798	XP_760206	XP_758236							XP_757794	XP_760064						
		Aspergillus fumigatus	XP_752943	XP_746794	XP_749651	EDP53140	XP_752937	EDP53116	XP_748098	EDP51110	XP_755196							EDP56709	XP_754786					XP_751769	
		Schizosaccharomyces pombe	NP_595803	NP_593423	NP_001018806	NP_595158	XP_001713100	XP_001713082	NP_593300	NP_593301	CAA30532							NP_593643	NP_595754					NP_588462	
		Saccharomyces cerevisiae	1GQP_A	NP_010276	EEU06984	EDN62645	NP_010403	EDV10820	NP_012036	CAY81061	CAY77700							NP_116694	NP_010546					NP_011741	
		Neurospora crassa	CAC28560	XP_001728250	XP_964316	XP_959459	XP_956179	XP_964327	XP_961540	CAC18281	XP_956598							XP_964014	XP_960666					XP_956209	
		Encephalitozoon cuniculi	NP_597441			NP_586231			NP_585899	NP_585771	NP_586422								NP_584809	NP_597660					
		Enterococcus faecalis	XP_002649405	XP_001827913 (?)		XP_002649879				XP_002650349	XP_002650295								XP_002649951	XP_002650580					
		Nosema ceranae BRL01	XP_002995625			XP_002996689				XP_002995905	XP_002995208	XP_002995969							XP_002995258	XP_002996735					
		Encephalitozoon intestinalis ATCC 50506	XP_003072909			XP_003073796				XP_003073104	XP_003072974	XP_003073964							XP_003072772	XP_003072646					
		Batrachochytrium dendrobatidis	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						Acc Num NA	Acc Num NA					
		Spizellomyces punctatus		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	Acc Num NA					
Apusozoa	Thecamonas trahens	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	XP_002114232							
Amoebozoa	Dictyostelium discoideum	XP_646955	XP_637455	XP_643183	XP_638254	XP_638336	XP_641250	XP_644962	XP_001134535	XP_636853	XP_629638	XP_629236	XP_642090				XP_638150	XP_637334							
	Entamoeba histolytica	XP_654652	XP_651657		XP_648466														XP_657064						
Excavata	Metamonada	Giardia intestinalis		EEI00603																					
		Trichomonas vaginalis	XP_001313595	XP_001325785	XP_001306780	XP_001326479			XP_001327110	XP_001583340	XP_001579241	XP_001312985	XP_001316770	XP_001581999						XP_001320233					
	Euglenozoa	Leishmania major	XP_888563	XP_843556	XP_843480	XP_001684803			XP_001681666	XP_001684662	XP_001687518							XP_001683689							
		Leishmania infantum	XP_001462876	XP_001469259	XP_001469183	XP_001467045			XP_001463991	XP_001466919	XP_001463004							XP_001463634							
		Trypanosoma cruzi	XP_811195	XP_813702	XP_821644	XP_811561			XP_821942	XP_811257	XP_809564							XP_819329							
		Trypanosoma brucei	XP_828039	XP_827311	XP_827412	XP_845449			XP_001219085	XP_845336	XP_823254							XP_847480							
	Heterolobosoa	Naegleria gruberi	EFC45514		EFC48750	EFC50559			EFC45000	EFC50413	EFC50492							EFC37108	EFC42486						
Alveolata	Ciliata	Tetrahymena thermophila	XP_001028080	XP_001014455	XP_001031380	XP_001031504	XP_001021620		XP_001011597	XP_001026497	XP_001032153							XP_001023872	XP_001031406						
																			XP_001028072	XP_001012331					
		Paramecium tetraurelia	XP_001453141	XP_001433857	XP_001426605	Acc Num NA	XP_001458727		XP_001425074	XP_001456952	XP_001434341	XP_001430646	XP_001460999	XP_001461175				XP_001428021	XP_001456512						
	Apicomplexa	Oxytricha trifallax	Acc Num NA	Acc Num NA	Acc Num NA	Acc Num NA			Acc Num NA	Acc Num NA	Acc Num NA								Acc Num NA						
		Plasmodium yoelii	XP_725062	XP_724743							XP_724142 ?										XP_728399				
		Plasmodium falciparum	XP_001350578	XP_966227							XP_001351576 ?										XP_001347545				
		Cryptosporidium hominis		XP_668394		XP_668328			XP_668598	XP_667497 ?	XP_668239 ?								XP_665894						
	Babesia bovis																								
	Theileria annulata																								