

Table S1 DNA sequences of CENP-A-associated DNA clones.				
Clone ID	Accession Number	FISH Localization	CNM	Repeat Families Found by RepeatMasker
CAIP#009	AB556430			
CAIP#021	AB556431	Chr.2 cen		Satellite CR1
CAIP#054	AB556432			
CAIP#060	AB556433			
CAIP#061	AB556434			
CAIP#063	AB556435	No major signals		
CAIP#064	AB556436	No major signals		
CAIP#077	AB556437			
CAIP#078	AB556438			
CAIP#079	AB556439	2 major and Multiple signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#089	AB556440			LINE CR1
CAIP#101	AB556441			LINE CR1
CAIP#113	AB556442			
CAIP#116	AB556443	No major signals		
CAIP#120	AB556444	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#122	AB556445			
CAIP#130	AB556446			
CAIP#131	AB556447	Chr.2 cen		
CAIP#142	AB556448			
CAIP#145	AB556449			
CAIP#146	AB556450			Low complexity
CAIP#147	AB556451			
CAIP#148	AB556452	No major signals		
CAIP#149	AB556453			
CAIP#150	AB556454	No major signals		

CAIP#151	AB556455	No major signals			
CAIP#152	AB556456	2 major and Multiple signals on MiniChr ?	CNM	Satellite GGXHOI	
CAIP#154	AB556457	No major signals			
CAIP#155	AB556458				
CAIP#156	AB556459			LTR ERVL	
CAIP#157	AB556460				
CAIP#158	AB556461				
CAIP#159	AB556462	Chr 6,9,and MiniChr?	CNM	Satellite GGXHOI	
CAIP#160	AB556463	No major signals			
CAIP#161	AB556464				
CAIP#162	AB556465				
CAIP#163	AB556466				
CAIP#164	AB556467	No major signals			
CAIP#165	AB556468	No major signals			
CAIP#166	AB556469			LTR ERVL	
CAIP#167	AB556470				
CAIP#168	AB556471	No major signals			
CAIP#169	AB556472				
CAIP#170	AB556473	No major signals			
CAIP#171	AB556474				
CAIP#172	AB556475				
CAIP#173	AB556476	No major signals			
CAIP#175	AB556477	No major signals		Low complexity	
CAIP#176	AB556478	Chr.Z cen (by seq comparision)		LINE CR1	
CAIP#178	AB556479				
CAIP#179	AB556480				
CAIP#180	AB556481	No major signals		LTR ERVL	
CAIP#181	AB556482	No major signals		Low complexity	

CAIP#182	AB556483				
CAIP#183	AB556484				
CAIP#184	AB556485				
CAIP#185	AB556486	No major signals			
CAIP#186	AB556487	No major signals			
CAIP#187	AB556488			LINE CR1	
CAIP#188	AB556489	No major signals			
CAIP#189	AB556490				
CAIP#191	AB556491			LINE CR1/LTR ERVL	
CAIP#192	AB556492				
CAIP#194	AB556493				
CAIP#195	AB556494	Chr.Z cen (by seq comparision)		LINE CR1	
CAIP#196	AB556495			LINE CR1	
CAIP#197	AB556496	Chr.7 cen		Satellite CR1	
CAIP#198	AB556497	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI	
CAIP#199	AB556498	No major signals			
CAIP#200	AB556499				
CAIP#201	AB556500				
CAIP#202	AB556501	No major signals			
CAIP#203	AB556502			LINE CR1	
CAIP#204	AB556503				
CAIP#205	AB556504				
CAIP#206	AB556505				
CAIP#207	AB556506				
CAIP#208	AB556507				
CAIP#209	AB556508	Chr.5 cen (by seq comparision)			
CAIP#210	AB556509	No major signals			
CAIP#211	AB556510				

CAIP#212	AB556511	2 major signals on MiniChr ?			
CAIP#213	AB556512				
CAIP#215	AB556513	Multiple signals on MiniChr?		Simple repeat (CAAGG)n	
CAIP#216	AB556514			LINE CR1	
CAIP#217	AB556515	Multiple signals on MiniChr ?		Satellite (CTCTATGGGG)n	
CAIP#218	AB556516	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI	
CAIP#219	AB556517				
CAIP#220	AB556518	No major signals		Low complexity	
CAIP#222	AB556519			LINE CR1	
CAIP#223	AB556520	No major signals			
CAIP#224	AB556521				
CAIP#226	AB556522				
CAIP#227	AB556523				
CAIP#228	AB556524				
CAIP#229	AB556525	No major signals			
CAIP#230	AB556526	No major signals		Simple repeat (TA)n	
CAIP#231	AB556527				
CAIP#232	AB556528				
CAIP#233	AB556529				
CAIP#234	AB556530	Multiple signals on MiniChr?		Low complexity	
CAIP#235	AB556531	2 major and Multiple signals on MiniChr ?	CNM	Satellite GGXHOI	
CAIP#236	AB556532				
CAIP#237	AB556533				
CAIP#238	AB556534	Multiple signals on MiniChr?		Simple repeat (CAAGG)n (GCCTG)n (CAGGC)n	
CAIP#239	AB556535	No major signals		Low complexity	
CAIP#240	AB556536				
CAIP#241	AB556537				
CAIP#242	AB556538				

CAIP#243	AB556539			
CAIP#244	AB556540			
CAIP#248	AB556541			
CAIP#249	AB556542			
CAIP#250	AB556543			
CAIP#251	AB556544	No major signals		Simple repeat (TTAGGG)n
CAIP#252	AB556545	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#253	AB556546			Simple repeat (TTAGGG)n
CAIP#254	AB556547			
CAIP#255	AB556548	Chr.7 cen		
CAIP#257	AB556549	Chr.3 cen		Satellite CR1
CAIP#258	AB556550	Multiple signals on MiniChr ?		Satellite (GCCCCACAGCT)n
CAIP#260	AB556551			
CAIP#261	AB556552			LINE CR1
CAIP#262	AB556553			
CAIP#264	AB556554	No major signals		LINE CR1
CAIP#265	AB556555			
CAIP#266	AB556556			
CAIP#267	AB556557	Chr.1 Cen		
CAIP#268	AB556558			
CAIP#269	AB556559	Chr.1 Cen		
CAIP#270	AB556560	No major signals		Simple repeat (TTAGGG)n
CAIP#271	AB556561	Chr.1 Cen		
CAIP#272	AB556562			
CAIP#273	AB556563	No major signals		LTR ERV1
CAIP#274	AB556564	2 major and Multiple signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#275	AB556565	2 major signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#276	AB556566			Simple repeat (TTAGGG)n

CAIP#277	AB556567			Satellite GGXHOI/Simple repeat(TTAGGG)n	
CAIP#278	AB556568				
CAIP#279	AB556569			LINE CR1/DNA-TcMar-Mariner	
CAIP#280	AB556570	Chr.4 cen		Satellite CR1	
CAIP#281	AB556571				
CAIP#283	AB556572			Simple repeat (TTAGGG)n	
CAIP#284	AB556573			LTR ERV1	
CAIP#285	AB556574	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI	
CAIP#286	AB556575	Chr.11 Cen			
CAIP#287	AB556576				
CAIP#289	AB556577				
CAIP#290	AB556578			LINE CR1	
CAIP#292	AB556579				
CAIP#294	AB556580				
CAIP#295	AB556581				
CAIP#296	AB556582			LTR ERVL	
CAIP#297	AB556583	No major signals			
CAIP#299	AB556584				
CAIP#301	AB556585	No major signals			
CAIP#302	AB556586				
CAIP#304	AB556587	Multiple signals on MiniChr?		Simple repeat (CAGGC)n (CCTTG)n	
CAIP#305	AB556588				
CAIP#306	AB556589				
CAIP#307	AB556590				
CAIP#309	AB556591				
CAIP#310	AB556592	No major signals			
CAIP#311	AB556593				
CAIP#312	AB556594	No major signals			

CAIP#313	AB556595		LINE CR1
CAIP#314	AB556596	Chr.2 cen	Satellite GGXHOI
CAIP#318	AB556597		
CAIP#319	AB556598		
CAIP#320	AB556599		Simple repeat (A)n
CAIP#321	AB556600		
CAIP#322	AB556601		
CAIP#323	AB556602		
CAIP#326	AB556603		
CAIP#327	AB556604		
CAIP#328	AB556605		Simple repeat (CCCCG)n
CAIP#329	AB556606		
CAIP#330	AB556607		LINE CR1
CAIP#331	AB556608		
CAIP#332	AB556609		Simple repeat (TTTA)n
CAIP#333	AB556610	No major signals	Simple repeat (CAAGG)n
CAIP#334	AB556611		
CAIP#335	AB556612	No major signals	Simple repeat (TTAGGG)n
CAIP#337	AB556613		
CAIP#338	AB556614		
CAIP#339	AB556615	Chr.11 Cen	Satellite CR1/Satellite GGXHOI/LINE CR1
CAIP#340	AB556616		
CAIP#341	AB556617	No major signals	
CAIP#342	AB556618		LTR ERVL
CAIP#343	AB556619	Multiple signals on MiniChr?	Simple repeat (CAAGG)n (CCTTG)n
CAIP#344	AB556620		LINE CR1
CAIP#345	AB556621		
CAIP#346	AB556622	Chr.7 cen	Satellite CR1/LINE CR1

CAIP#348	AB556623			
CAIP#350	AB556624	No major signals		
CAIP#351	AB556625		LINE CR1	
CAIP#352	AB556626			
CAIP#353	AB556627	Chr.8 cen		
CAIP#354	AB556628			
CAIP#355	AB556629			
CAIP#356	AB556630			
CAIP#357	AB556631			
CAIP#358	AB556632	Chr.2 cen		
CAIP#359	AB556633	No major signals		
CAIP#360	AB556634			
CAIP#361	AB556635			
CAIP#362	AB556636	No major signals	Simple repeat (TTAGGG)n	
CAIP#363	AB556637			
CAIP#364	AB556638	Chr.5 cen (by seq comparision)		
CAIP#365	AB556639			
CAIP#367	AB556640		LINE CR1	
CAIP#368	AB556641			
CAIP#369	AB556642			
CAIP#370	AB556643	No major signals	Simple repeat (TTAGGG)n	
CAIP#371	AB556644	No major signals		
CAIP#372	AB556645			
CAIP#373	AB556646			
CAIP#374	AB556647			
CAIP#375	AB556648			
CAIP#376	AB556649			
CAIP#377	AB556650			

CAIP#378	AB556651			
CAIP#379	AB556652	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#380	AB556653	Chr.2 cen		Satellite GGXHOI/LINE CR1
CAIP#381	AB556654	Multiple signals on MiniChr ?		Satellite (CTCTATGGGG)n
CAIP#383	AB556655	No major signals		LTR ERVL
CAIP#384	AB556656	No major signals		LINE CR1
CAIP#386	AB556657			
CAIP#387	AB556658			
CAIP#388	AB556659			
CAIP#389	AB556660			
CAIP#390	AB556661	Chr.27 cen (by seq comparision)		LINE CR1
CAIP#391	AB556662	No major signals		
CAIP#392	AB556663	No major signals		
CAIP#393	AB556664			LINE CR1
CAIP#394	AB556665			
CAIP#395	AB556666	Chr.11 Cen		Satellite CR1
CAIP#396	AB556667			
CAIP#397	AB556668	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#398	AB556669	No major signals		LINE CR1
CAIP#399	AB556670	No major signals		LINE CR1
CAIP#400	AB556671	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI
CAIP#401	AB556672			
CAIP#402	AB556673			
CAIP#403	AB556674			
CAIP#404	AB556675			
CAIP#405	AB556676	Chr.4 cen		Satellite CR1
CAIP#406	AB556677			
CAIP#407	AB556678			

CAIP#408	AB556679				
CAIP#409	AB556680			LINE CR1	
CAIP#410	AB556681				
CAIP#411	AB556682	2 major signals on MiniChr ?			
CAIP#412	AB556683	Chr.Z cen (by seq comparision)		LTR ERVL	
CAIP#413	AB556684	No major signals			
CAIP#414	AB556685				
CAIP#415	AB556686				
CAIP#416	AB556687				
CAIP#417	AB556688			LINE CR1	
CAIP#419	AB556689				
CAIP#420	AB556690	No major signals		Low complexity	
CAIP#422	AB556691				
CAIP#424	AB556692	No major signals		Simple repeat (TTAGGG)n	
CAIP#425	AB556693				
CAIP#426	AB556694				
CAIP#427	AB556695	No major signals		Simple repeat (TTAGGG)n	
CAIP#428	AB556696	No major signals		Simple repeat (TTAGGG)n	
CAIP#429	AB556697				
CAIP#430	AB556698			LINE CR1	
CAIP#431	AB556699				
CAIP#432	AB556700			LINE CR1	
CAIP#434	AB556701				
CAIP#435	AB556702				
CAIP#436	AB556703				
CAIP#437	AB556704				
CAIP#440	AB556705	Multiple signals on MiniChr?		Simple repeat (CAAGG)n	
CAIP#441	AB556706	No major signals			

CAIP#442	AB556707	Chr.11 Cen? (need further test)		Satellite CR1 /Satellite GGXHOI	
CAIP#443	AB556708	No major signals			
CAIP#444	AB556709	Multiple signals on MiniChr ?	CNM	Satellite GGXHOI	
CAIP#446	AB556710	Chr.4 cen ?(need further test)		Satellite CR1	
CAIP#447	AB556711			DNA TcMar-Mariner	
CAIP#450	AB556712	No major signals		LINE CR1	
CAIP#451	AB556713	Chr.8 cen			
CAIP#453	AB556714			LINE CR1	
CAIP#454	AB556715				
CAIP#456	AB556716	No major signals		LTR ERVL	
CAIP#457	AB556717				
CAIP#458	AB556718			Low complexity	
CAIP#459	AB556719	Chr.2 cen			
CAIP#460	AB556720	Chr.7 cen		Satellite CR1	
CAIP#461	AB556721				