



24639383.f VSGGNSILRSIRYKSTNSTGTQGFDVEDRIDEVDICDDDDVDCDDRGEI EEEEEEEEDDGVNVDVVVEADNQSDNQSGIIIINLKSQTEQEEVDEVDAKPKNRLLLPPDQAELTVAAAMARRDAKSLATDGHIFYFPLLKISEDPHIDSKLINRKDGLQDTMYLDEFGSPLKLRKFARKQKOLLAKQQQLMKRRE  
31209531.i .....  
17509723.w .....  
24651631.f .....  
AK100950.q .....  
AK073725.q .....  
15224593.p .....  
15221476.p .....  
15233984.p .....  
83500988.q .....  
15230058.p .....  
30679624.p .....  
18421039.p .....  
AK099742.q .....  
22326813.p .....  
AK099599.q .....  
AK072390.q .....  
15218288.p .....  
30681397.p .....  
15217795.p .....  
AK070062.q .....  
15236918.p .....  
15233049.p .....  
32405824.y .....  
39943922.y .....  
19114046.y .....  
19112356.y .....  
19112352.y .....  
13811965.z .....  
6320124.y .....  
6323788.y .....  
23957759.z .....  
6324022.y .....  
6324444.y .....  
17551028.w .....  
19921212.f .....  
19074550.y .....  
1fvv\_CDk2 .....  
1cm8\_P38g .....  
1jwh\_CK2a .....  
1how\_Ymr21 .....  
17535411.w .....  
.....

	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
600	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17505909.w	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17510851.w	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17506723.w	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17540440.w	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17510843.w	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
23619107.z	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GSK3A.h	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8393496.m	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18858781.d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9790077.m	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14091770.m	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GSK3B.h	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18858783.d	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24639379.f	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24639381.f	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17136458.f	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
19550111.f	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17136456.f	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24639383.f	SEEQRKKRNNTTVASNLAASGAVVDDIKDDYKQQPHCDTSSRSKNNSV2NPPSSHQNHNLVVDVQEDVDDVNvatSDVGVKMRHSHDNHYDRIPRSNAATITT	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	SDGSGENVKTAKLARTQCSVTKVVQ	.....	.....
31209531.i	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17509723.w	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MNKQLLSCS	.....	.....
24651631.f	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MAQSOKNSG	.....	.....
AK100950.q	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MAAMPGGPDLAGAGGA	.....	.....
AK073725.q	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MA1LPGGPHPTGGG	.....	.....
15224593.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MTS1PLGPQPSSLAPQ	.....	.....
15221476.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MA5LPLGP-QPHALAP	.....	.....
15233984.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MEILDAPPFFAAVAA	.....	.....
83500988.q	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGIEPSSAAVRESTGNV	.....	.....
15230058.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGIEPSSAAVRESTGNV	.....	.....
30679624.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGIAFPNPGRDSTG	.....	.....
18421039.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGVAPS-GCLNKSSTS	.....	.....
AK099742.q	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGTLPASSMATKGNSAS	.....	.....
22326813.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGLVDSSSCFTETSTS	.....	.....
AK099599.q	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MHMRRKLKSIASGRSSVSDGGDSGTKR-KFDODGAGDVIVEPHLTDKPMRVDESSSSERDAEASTSTSKNP	.....	.....
AK072390.q	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MASSGLONG	.....	.....
15218288.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MASSHLONG	.....	.....
30681397.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	MASSGLRHGG	.....	.....
15217795.p	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGSS-RSAKNTKNTSS	.....	.....
AK070062.q	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	VGSSSRPGBHGFKGPAS	.....	.....



1000            810            820            830            840            850            860            870            880            890            900            910            920            930            940            950            960            970            980            990

17505909.w PFLKDNNPCEVQCLISLIVVQLFPGCQAHLE KSEICHRDIKPQNLLVNAIDTG LIXISDVSSAIESVKTFQQ SYIVTRYYRPGLLQSKNYGCKIDT SCCCVCFCELLKCG CIFIATKSG AKNGAEWVFDMCPVPCADDVSSSMNGS NTAY K  
17510851.w QFLKDNNRRLDILVKELVWQLFPGCQAHLE KADICHRDIKPQNLLVNAIDTG LIKIDDFUSAKMIVKGKANN FYVTRFYRPPHLLKAMEYNSDIDVW SAGCCIMAEVMKR HVVPVCPRD SAQOLKLYCRGCRNCAPEODISAMKGEKIEKEY  
17506723.w A-EVIR -OKLTDLDRLYTWIFSGLYLE EHVKVHRDLKPVNILVDIDTA LUKIDDFUSAKMIVKGKANN FYVTRFYRPPHLLKAMEYNSDIDVW SAGCCIMAEVMKR HVVPVCPRD SAQOLKLYCRGCRNCAPEODISAMKGEKIEKEY  
17540440.w A-EVIR -OKLTDLDRLYTWIFSGLYLE EHVKVHRDLKPVNILVDIDTA LUKIDDFUSAKMIVKGKANN FYVTRFYRPPHLLKAMEYNSDIDVW SAGCCIMAEVMKR HVVPVCPRD SAQOMKLGYCPCVPBEOQILAMKGERLENE  
17510843.w Q-NILKK IRLABVDKLYTVOLFEGIYLD AHMMHRDLKPVNILVDIDTG LUKIDDFUSAKMIVKGKANN FYVTRFYRPPHLLKAMEYNSDIDVW SAGCCIMAEVMKR HVVPVCPRD IKJMLKHIVGAALPSARDLDRMVSSMIDQO  
23619107.z G-RYIR -MKKCKRENNICIGICLKLH KNDFAHRDLKPVNILLDPSNI KIEICHRDIKPQNLLVNAIDTG LUKIDDFUSAKMIVKGKANN FYVTRFYRPPHLLKAMEYNSDIDVW SAGCCIMAEVMKR HVVPVCPRD KKDEYSEECQIN  
GSK3A.h Y-RVARAYFTRAKLTIPLIVVVKVYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
8393496.m Y-RVARAYFTRAKLTIPLIVVVKVYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
18858781.d Y-RVARAYFTRAKLTIPLIVVVKVYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
9790077.m Y-RVARAYFTRAKLTIPLIVVVKVYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
14091770.m Y-RVARAYFTRAKLTIPLIVVVKVYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
GSK3B.h Y-RVARAYFTRAKLTIPLIVVVKVYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
18858783.d Y-RVARAYFTRAKLTIPLIVVVKVYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
24639379.f Y-KVARAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
24639381.f Y-KVARAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
17136458.f Y-KVARAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
19550111.f Y-KVARAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
17136456.f Y-KVARAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
24639383.f Y-KVARAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
31209531.i Y-KVARAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
17509723.w Y-RVARAYSKRQDIPMIYVVKYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDOLVEIIKVLTPTPREIQRMN NYDFK  
24651631.f Y-KVERAYAKHKOIPNFRLYMYQQLFRSLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKQLVGPBNV SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS GVDQIVEIVKVMPTPSEQLHDNM HYDFK  
AK100950.q Y-RVLRKLYKDKMRMLPVVYKLYMIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS AVDOLVEIIKVLTPTPREIRCMN NYDFK  
AK073725.q Y-RVLRKLYKDKMRMLPVVYKLYMIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS AVDOLVEIIKVLTPTPREIRCMN NYDFK  
15224593.p Y-RVLRKLYTSSNORMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA CKLICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS SVDOLVEIIKVLTPTPREIRCMN NYDFK  
15221476.p Y-RVDRYITSSNORMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS SVDOLVEIIKVLTPTPREIRCMN NYDFK  
15233984.p Y-RVLRKLYSSANORMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS AVDOLVEIIKVLTPTPREIRCMN NYDFK  
83500988.q Y-RVLRKLYSSANORMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQDS AVDOLVEIIKVLTPTPREIRCMN NYDFK  
15230058.p H-RVLRKLYNNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
30679624.p H-RVLRKLYNNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
18421039.p H-RVLRKLYNNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
AK099742.q H-RVVKLYNNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
22326813.p Y-RVSKYYSRANORMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
AK095959.q H-RVIRYXNMSKDNRMPVPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
AK072390.p Y-RVAKYNNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
15218288.p N-RVARAYSRNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
30681397.p N-RVARAYSRNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
15217795.p N-RCATRSRNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
AK070062.q N-RHARAYSRNDRVPLIYVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
15236918.p Y-RASKRAYTKNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
15233049.p Y-RASRATYTKNDRMPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
32405824.y Y-RASROPNKMTMPILBVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GIDOLVEIIKVLTPTPREIRCMN NYDFK  
39943922.y Y-RASROPNKMTMPILBVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GIDOLVEIIKVLTPTPREIRCMN NYDFK  
19114046.y Y-RASRATYTKLSPMLEVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GIDOLVEIIKVLTPTPREIRCMN NYDFK  
19112356.y F-DDMRATYTRRKIPNLSKLYAFOLFRALAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
19112352.y F-DDMRATYTRRKIPNLSKLYAFOLFRALAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
13811965.z H-RVQDYSNPKQDPLIVVVKLYTYQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
6320124.y Y-QDRIFVNLKCMMPFVBEAYQOLFKALNIVFRCRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GIDOLVEIIKVLTPTPREIRCMN NYDFK  
6323788.y Y-QDRIFVHORTPMSBLEKYYMFOLFKSLYLYHIFANVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GIDOLVEIIKVLTPTPREIRCMN NYDFK  
23957759.z H-RYMKYSSRNQALPMFLVKLYSYQICRALSYIH SGGVCHRDIKPQNLLVDPDTA VIKLCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
6324022.y Q-IRINNVINKLEMPLKIRLYTYQICRALSYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
6324444.y S-SEIHPYFDONGSKMPKIDKLYTFQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
17551028.w A-YHRRPAHNDKMPAYSXKLYMFQLRLPFLH LHNIVHRDLKPVNILVDESGNG VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
19921212.f LDVNYHILTVLQPAERLINVRLSYQMFQRLYLYLICISHRDVKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
19074550.y E-EYKRNARVETEEYRSVYRILEGCRVLYH EKNICHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
1fvv\_CDk2 KKFEDASALTG IPPIPKSYTFQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
1cm8\_P38g FMGTDLGKLMKHEQGEDRQFQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
1jwh\_CK2a NTDFKQLY-QHLDYDPRFYMYBILCALDYH SMCIMHRDVKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
1how\_Ymr21 L-ALTIKVRERIPYLIVVKOISKOLLGLDYMFRCCGIIHIDKLPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK  
17535411.w A-RLRDQGVKFVDALKLYTFQIFRCLAYIH SGGVCHRDIKPQNLLVDPDTA VIKICCDPFSAKMIVKGKANN SYICSRYYRAPELIFGATYTTSIDVW SAGCVALELLLGQPIFPQES GVDOLVEIIKVLTPTPREIRCMN NYDFK

1200            1010    1020    1030    1040    1050    1060    1070    1080    1090    1100    1110    1120    1130    1140    1150    1160    1170    1180    1190

17505909.w EIIISYBPDTSKRTA- DLAIVLYNQTAFQRDRKRTSTVYNKIDYSDMKC- VELLRCVIVYNT- SRRLCGIEFLINPFFT- VLFNEKTVRFNKKKICCVSAVDIQAVKSGCDVLTNEVSVERHST-  
17510851.w EVLDSYEMKCTTA- DLTMLYIQTIVYKDRTTSTVYNKIEQDDMKESAVVLLQIIVYNT- NKRLSGIEILTHPYFVN- VLFNEKTVRFNKKKICLCAVDIQSVKSGBTTLTNESEVQTS-  
17506723.w KFTTCFGQLQRIWNDI- SPDLQPIKTRILWAPERKRLRKGOLLQDDEFFRLFKAGAVRNINGKISDVITAADYKRAAEENEESACRLAQQLVKTDNKDLGIPYCEKSNSYENV- YARRSTLIPKEQKMARDNKSKEDSSDDRVAAPSSGEAPSAPGKRSESNKTAATIACK-  
17540440.w KFTTCFGQLQRIWTEI- TPDLQPIKTRILWTPKPERLHGKQLLQDDEFFQTKTFRQSVLPWYWRLLTTGIRG- FQTVRRATLMR- MFFREDQHLSRRNRRLVLMNSNEVTTITDVVG- HQWKIVDHRRLR-  
17510843.w -AVKVICLKGVLGTE- NOEWAFLGAAHLWPRPERLHGKLLSHPFPCIFTPPKCTLNGLLVSQVITLDYYKTAQKNDSSTSGQYAAAILRHEIFRSLKAPIVRPPAPPAPPVPMIDMISCRFLFLSLLVTVESLECYTGFTYIKAQSFGTSKEICPSPNDYCYMTADTLSLNVKKGGCSSTRCLARN-  
23619107.z -LIEVGIGSPMSFEE- NIKRHTSKKNIJLILKECELCELNPLCWLDELLNLNGLIE- NPNERLNIDAVLSNPYFSTLNK-  
GSK3A.h PQIKAHPTKVFKR- TPEPAIAACSRILEYTPAR- TPEAACAHFFFDELRL- CLGTCPPNRP- ELPJLFNFSAGEISIOP- SNAALIPPHRSPS-  
8393496.m PQIKAHPTKVFKR- TPEPAIAACSRILEYTPAR- TPEAACAHFFFDELRL- SLGTCPPNRP- ELPJLFNFSAGEISIOP- SNAALIPPHRSPS-  
18858781.d PQIKAHPTKVFKR- TPEPAIAACSRILEYTPVTR- TPEAACAHFFFDELRL- QENARCPNRP- ELPJLFNFSAGEISIOP- CDSNLLPFRHRSOT-  
9790077.m PQIKAHPTKVFKR- TPEPAIAACSRILEYTPAR- TPEAACAHFFFDELRL- DPNVKUPNRP- DTPALFNFTQELSSNP- PLATLIPPHARIQA-  
14091770.m PQIKAHPTKVFKR- TPEPAIAACSRILEYTPAR- TPEAACAHFFFDELRL- DNVKUPNRP- DTPALFNFTQELSSNP- PLATLIPPHARIQA-  
GSK3B.h PQIKAHPTKVFKR- TPEPAIAACSRILEYTPAR- TPEAACAHFFFDELRL- DNVKUPNRP- EKPSLFPNTTQELSSNP- TAAASLIPPHARIQA-  
18858783.d PQIKAHPTKVFKR- TPEPAIAACSRILEYTPAR- TPEAACAHFFFDELRL- EPNVKUPNRP- DMPJLFNFTQELSSNP- SGPGGNRPSSAGGAASIA-  
24639379.f PQIKSHPQKVFRIR- TPEAIALNVSLLEYTPSARE- TPLAKACAHFFFDELRLMEGNHDPNRP- DMPJLFNFTQELSSNP- SGPGGNRPSSAGGAASIA-  
24639381.f PQIKSHPQKVFRIR- TPEAIALNVSLLEYTPSARE- TPLAKACAHFFFDELRLMEGNHDPNRP- DMPJLFNFTQELSSNP- SGPGGNRPSSAGGAASIA-  
17136458.f PQIKSHPQKVFRIR- TPEAIALNVSLLEYTPSARE- TPLAKACAHFFFDELRLMEGNHDPNRP- DMPJLFNFTQELSSNP- SGPGGNRPSSAGGAASIA-  
19550111.f PQIKSHPQKVFRIR- TPEAIALNVSLLEYTPSARE- TPLAKACAHFFFDELRLMEGNHDPNRP- DMPJLFNFTQELSSNP- SGPGGNRPSSAGGAASIA-  
17136456.f PQIKSHPQKVFRIR- TPEAIALNVSLLEYTPSARE- TPLAKACAHFFFDELRLMEGNHDPNRP- DMPJLFNFTQELSSNP- SGPGGNRPSSAGGAASIA-  
24639383.f PQIKSHPQKVFRIR- TPEAIALNVSLLEYTPSARE- TPLAKACAHFFFDELRLMEGNHDPNRP- DMPJLFNFTQELSSNP- SGPGGNRPSSAGGAASIA-  
31209531.i PQIKSHPQKVFRIR- TPEAIALNVSLLEYTPCTR- TPLAKACAHFFFDELRLMEGNHDPNRP- EFPJLFNFTQELSSNP- SINYLRLPNRNEAASAKAQ-  
17509723.w PQIKAHPTKVFRVH- TPAEAIDLSSLKILEYTPSAR- TPLAKACAHFFFDELRLMEGNHDPNRP- ELPJLFNFTQELSSNP- TDEMDS- PAGTCEVSTTSGDVA-  
24651631.f PEIKAHPTKVFRIR- TPEAEIDLVLSKMILYSPNAR- SPMGCAHFFFDELRLDPHQDLPNRP- SLPJLFNFTTDYEKTIIEP- DMPJLFNFTQELSSNP- KEPASSSTKEPEAHSRNRTAGE-  
AK100950.q PQIKACCPWKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- EPHAKUPNRP- FPPJLFNFK- QELANTHPEEVGLLDEHAKRHS-  
AK073725.Q PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- EPHAKUPNRP- FPPJLFNFK- QELANLSPPEINNLIPPHARIQA-  
15224593.p PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENARCPNRP- FPPJLFNFK- QELSGASPEINNLIPPHARIQA-  
15221476.p PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENARCPNRP- ELPJLFNFK- QELGGASMEINNLIPPHARIQA-  
15223984.p PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENARCPNRP- ELPJLFNFK- QEVAGSSPEINNLIPPHARIQA-  
83500988.Q PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENARCPNRP- ELPJLFNFK- HEIASASASPEINNLIPPHARIQA-  
15230058.p PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCAALDSLVHFFFDELRL- ENARCPNRP- ELPJLFNFK- HEIKGVFVEVAKLVPBEHARKOC-  
30679624.p PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCAALDSLVHFFFDELRL- ENARCPNRP- ELPJLFNFK- HEIKGVFVEVAKLVPBEHARKOC-  
18421039.p PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRSAALDILVHFFFDELRL- ENARCPNRP- ELPJLFNFK- HEIKGVFVEVAKLVPBEHARKOC-  
AK099742.Q PQIKAHPTKFHKR- LPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENARCPNRP- ELPJLFNFK- HEIKGVFISDINAKLIPBEHARKOC-  
22326813.p PQIKAHPTKFHKR- LPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENARCPNRP- ELPJLFNFK- HEIKGVFISDINAKLIPBEHARKOC-  
AK099599.Q PQIKAHPTKFHKR- MPSEADVLVSRLLOYSPNLRSAALDILVHFFFDELRL- ENARCPNRP- ELPJLFNFK- REIKGASMEFLVILVDPHAKKOC-  
AK072390.Q PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- KTOPLSNR- ELPJLFNFK- REIKGASMEFLVILVDPHAKKOC-  
15218288.p PQIKAHPTKFHKR- LPPEAIDLCCRFQYSPNLRCTAAECAHHFFFDELRL- ENTRUPNRP- ELPJLFNFK- REIKGASMEFLVILVDPHAKKOC-  
30681397.p PQIKAHPTKFHKR- LPPEAIDLCCRFQYSPNLRCTAAECAHHFFFDELRL- ENTRUPNRP- ELPJLFNFK- REIKGASMEFLVILVDPHAKKOC-  
15217795.p PQIKAHPTKFHKR- LPPEAIDLCCRFQYSPNLRCTAAECAHHFFFDELRL- ENTRUPNRP- ELPJLFNFK- REIKGASMEFLVILVDPHAKKOC-  
AK070062.Q PQIKAHPTKFHKR- LPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENTRUPNRP- ELPJLFNFRQETANGIPPEAIEVLIPBEHARRQS-  
15236918.p PQIKAHPTKFHKR- MPPEAIDLVSRLLOYSPNLRCTAAECAHHFFFDELRL- ENTRUPNRP- ALPJLFNFTQAEIJAGASTE- QORLIPAHQCGIG-  
15233049.p PQIKAHPTKFHKR- VSPEAMDIASRLLOYSPNLRCTAAECAHHFFFDELRL- DRASLPNRP- ALPJLFNFTQAEIJAGASVEHLLIPBEHARKON-  
32405824.y PQIKSHPDKVFKK- ADADAIDLSSLKILEYTPTR- TAAECAHHFFFDELRL- DPSTRPDPRHNSGTVR- DLPJLFDTREHLSIAP- OINHKLVPSPHMRPVLASKGL-  
39943922.y PQIKSHPDKVFKK- ADNAIDALSSLKILEYTPTR- TAAECAHHFFFDELRL- NPSTKUPDPRHOTGQVR- DLPJLFDTREHLSIAP- OINHKLVPSPHMRPVLASKGL-  
19114046.y PQIKPOPLSRVFRS- VELDALDLSLSSLKILEYTPTR- TAAECAHHFFFDELRL- DENTKUENRNADASPR- HLPJLFNFSPEISIR- DNOXITPSHARDALPVK-  
19112356.y PVNPHCLESVMPHN- CTKNAMDLLKMLTWPCKRSTAEVLVTHFFFDELRL- DPNCMYHCSRDEGTIER- HLPJLFNFSPEISIR- DNOXITPSHARDALPVK-  
19112352.y PVNPHCLESVMPHN- CTKNAMDLLKMLTWPCKRSTAEVLVTHFFFDELRL- DPNCMYHCSRDEGTIER- HLPJLFNFSPEISIR- DNOXITPSHARDALPVK-  
13811965.z RLSLSPHEVVFHKH- LEPEAIDLHKMLDLPSPRTR- TAAKASHFFKCLK- IKGAKUPN- NLPJLFDFSKKEFEYSSRFTTEISTOKMLFYCK-  
6320124.y PNKIEITILARTPKAE- DPDIDLILTTKLYHPCERLKVPLCQLCLSPYFDELIDDGCKINQITD- LELIFDPDVETELGHVPLIVERAIERLKHFW-  
6323788.y PQIKSHPDKVFKK- DDOQVEELAVLKYDPLERENAIQCLCSYFDELIDDGCKINQITD- LKLLPFDENELGHLSPELSSVKKLY-  
23957759.z PDVKSKDLRKFVKG- PTDDEAINLITCPEPLKRNPEALADFFFDELRL- DPCIRPKYID- KLPJLFNFCKEETIEMSMCCRKIPKRVYEEFLMVDE-  
6324022.y SGSSQOEPKVFGRS- GPDIDLILKMLTWPCKRSTAEVLVTHFFFDELRL- NDDETFPPIRFT- EPI- KLPJLFDFDFPDEQILG- EFADEIHKPTKVAE-  
6324444.y NDPEPKKMHWEPSI- EFFDVEELKVLVYDATERCDAPQLMAHFFCMLR- NETYFVPRSS- MFV- HLPJLFNFSASEKRALNG- EYNNLIVPSLD-  
17551028.w DTHIGVGICLFIGRK- LSLSLLELLNLBMKNDPKLRKPYEAALTYFDDLRP- HYKLPDSG- A- EPIPLFD- LEREYIANH- EPIKIDIFPR- SEEGD-  
19921212.f PRTRPSVNYLNTA- VEQDLCGLLNCFYEAARISPMAASHGSYDEIRIMDAMAIPMNG- N- ELPJLFDENLENGTDP- KQWVNLIDHLSMED-  
19074550.y OGVIIRKYLQEFPSD- PDLLEVLFBK- LAFSPCKRSTAEPLLKOFFCQAH- KLPJLFNFSPEISIR- DNOXITPSHARDALPVK-  
1fvv\_CDk2 PWKARQDFSLVWPP- LDEDERGSSLSSOMLHYDPNKRISAKAALAHFFFDELVTKPVPHRL-  
1cm8\_P38g PELBKPKPESAHILN- ASPLAVNLLEKMLVLDABQR- TACEALAHPYFESLHDTEDEPQVQYDDSFDDVDR- TLDEWKRVTVKEYLSFKP- RQLCARVSKETPL-  
1jwb\_CK2a CRHSRKRPVVFSENHL- VSPEALDLDKLLRUDHOSRTRAEAMHEPYFVTVVKDQARMGSS-  
1how\_Ymr21 SKLFWPLEVLTBKYKFSKDEAKEISDPLISMLQDPKRRAAGGLVNHWPWLTGOMEERIWPDR- LYGGSDIIGGWFP- TRDHRKR-  
17535411.w TRAPAMSRSTENKLAPFTSKMLDSEIYDMEKATLKDPPKRS- SADVLKMLPFLCILRBSPPFKKRSNCVEMP- LASYTEMHFKREPETEVVADQITTEKAKEKESDSTNEELED-



The figure is a horizontal timeline chart. The x-axis is labeled with years from 1610 to 1790 in increments of 10 years. The y-axis lists 1800 entries. Each entry is represented by a horizontal bar spanning the entire width of the chart, indicating that they all cover the same time period from 1610 to 1790.



