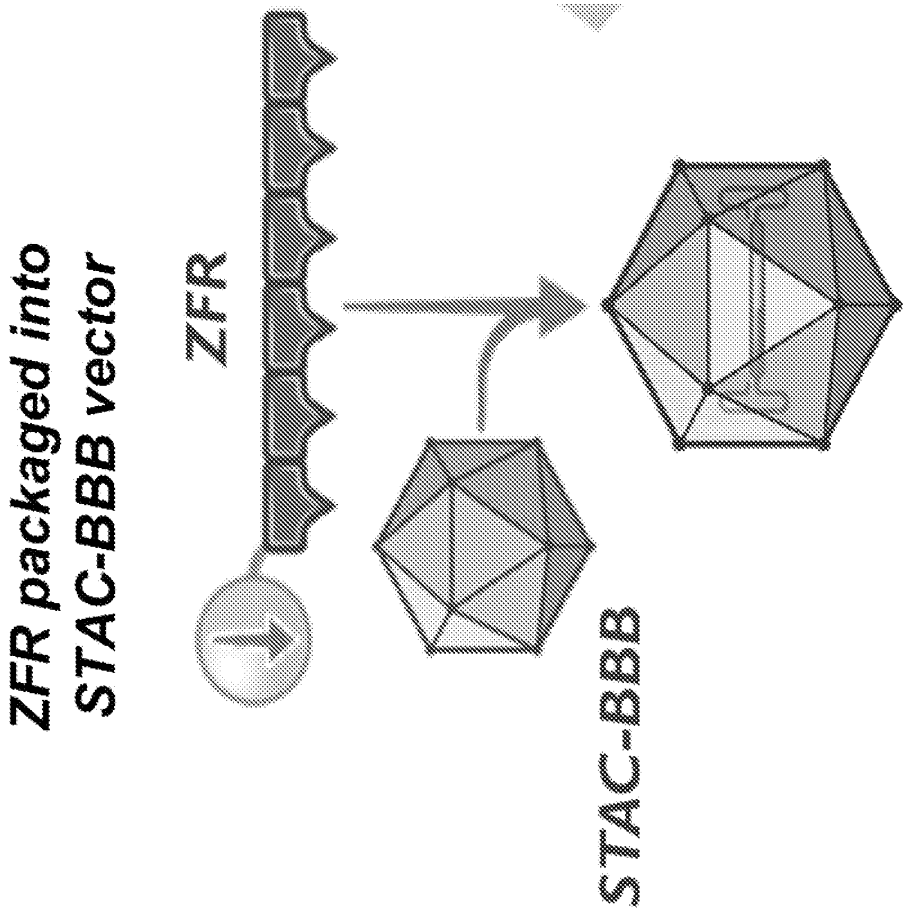


FIG. 1(A)

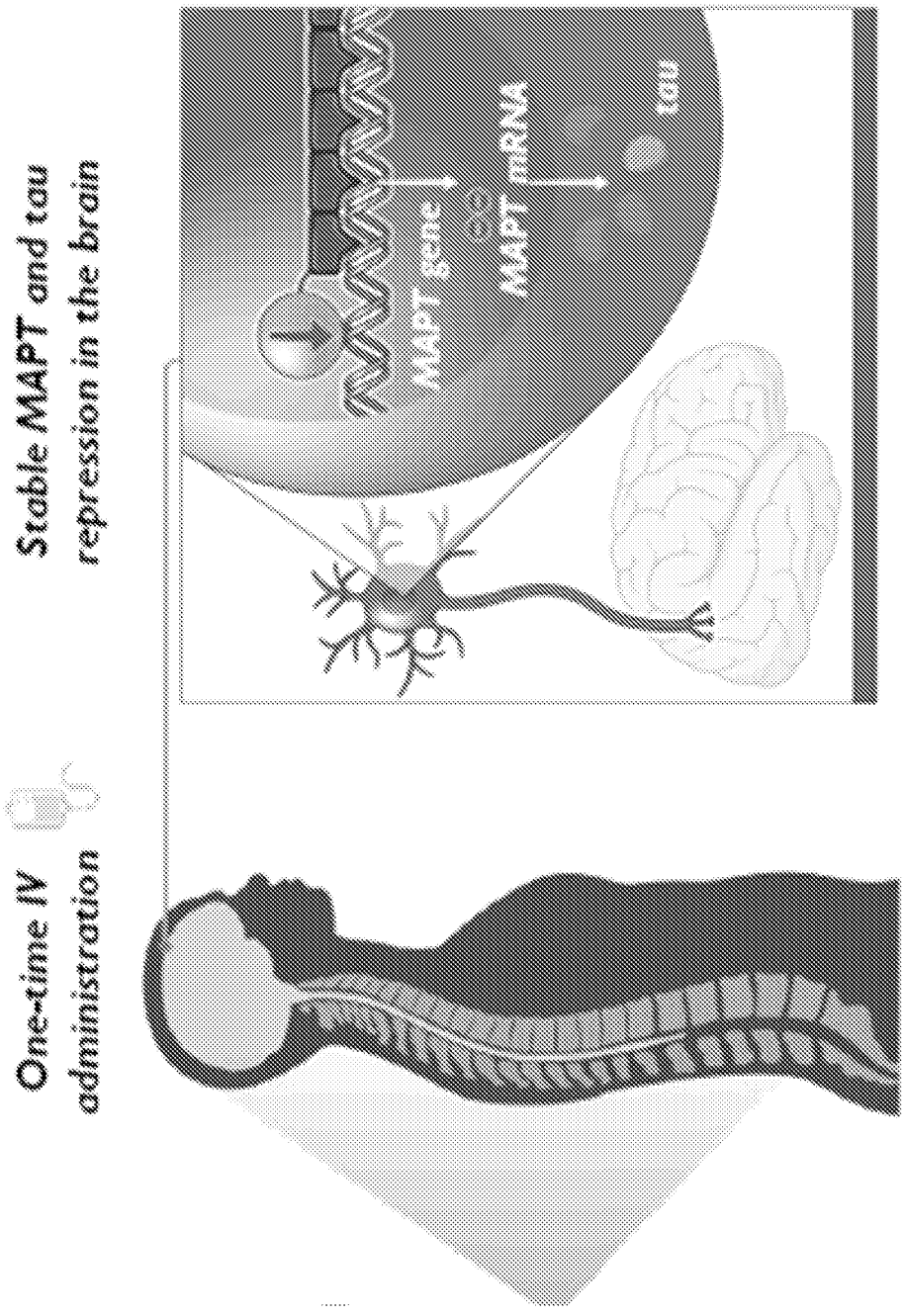

One-time IV administration
Stable MAPT and tau repression in the brain
MAPT gene
MAPT mRNA
tau

FIG. 1(B)

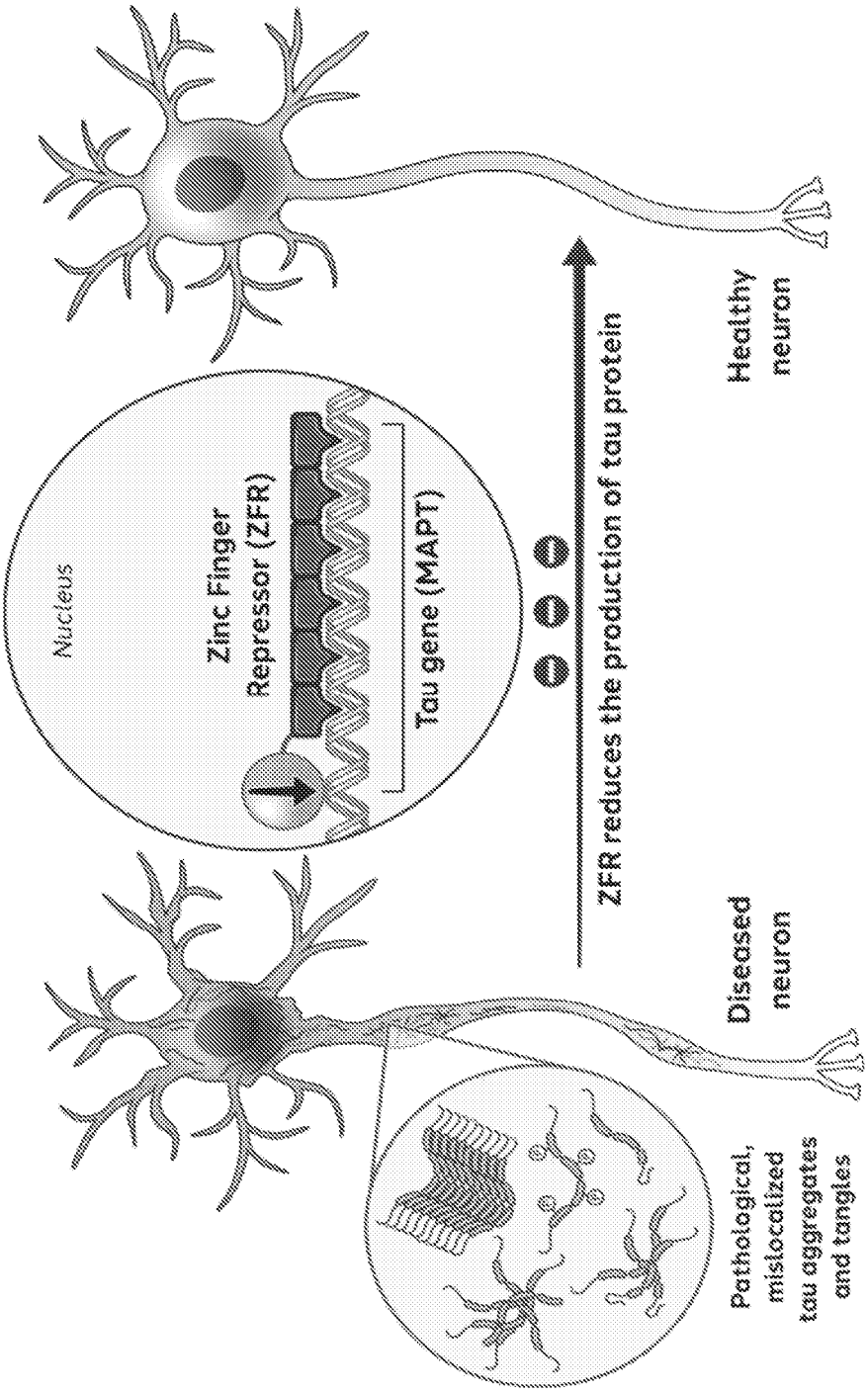

Nucleus
Zinc Finger
Repressor (ZFR)
Tau gene (MAPT)
ZFR reduces the production of tau protein
Healthy
neuron
Diseased
neuron
Pathological,
mislocalized
tau aggregates
and tangles

FIG. 1(C)

ZFP ID	Target Sequence (capital letters)	DNA-Recognition Helix Amino Acid Sequence Within Each Finger											
		F1	L1	F2	L2	F3	L3	F4	L4	F5	L5	F6	L6
52288	agGGGCGGGCAGCGag (1270)	RSADLTR (1322)	0f	QSGDLTR (1352)	0c	RSDHLSE (1387)	0f	RSAHLSR (1337)	C1k				
52389	ccGTTGCGCCTGATtGATGCCca (1271)	ERGTLAR (1323)	0f	TSANLSR (1355)	1c	TSGNLTR (1348)	0f	HRTSLTD (1401)	0c	RSHSLLR (1412)	0f	HPSARKR (1419)	C1k
52364	cgACAGAAGGCGAGga (1272)	RSDNLAR (1324)	0f	DRSHLAR (1356)	0c	QSGNLAR (1344)	0f	QSNTRIM (1402)	C1k				
57890	tgGTGCTGGAGCTGGTGGGTgg (1273)	LRHHLTR (1325)	0f	RRFTLSK (1357)	0c	RSDVLSE (1388)	0f	KHSTRRV (1403)	0c	RSDVLSE (1388)	0f	RLYTLHK (1420)	C1k
71214	gtTCCGTGGCGCACGCGCct (1274)	RRSDLKR (1326)	0a	DQSNLRA (1358)	0f	RKSDRIK (1389)	0c	RSDSLSR (1327)	0f	DRSDRTK (1359)	C1k		
71218	gcGCGCACGCGCGTTCCGTGGc (1275)	RSDSLSR (1327)	0f	DRSDRTK (1359)	0c	RKQDLRT (1390)	0f	RRSDLKR (1326)	0c	DQSNLRA (1358)	0f	RRSDLKR (1326)	C1k
71225	gcGGCGCTGACCGCAGCGCGca (1276)	RSDDLTR (1328)	0f	MSYQLGR (1360)	0c	QAHHLRT (1329)	0f	DRSNLTR (1361)	0c	QSSDLSR (1338)	0f	DRSHLAR (1356)	C1k
71227	caGGCCGCGGCGCTGACCGCag (1277)	QAHHLRT (1329)	0f	DRSNLTR (1361)	0c	QSSDLSR (1338)	0f	DRSHLAR (1356)	0c	YDYGRYT (1413)	0f	DRSHLAR (1356)	C1k
71249	cgGCCGAGCGGCAGgGCGCTCgc (1278)	DRSYRNT (1330)	0f	RRSDLKR (1326)	1c	RSDNLSQ (1391)	0f	RSNARTN (1404)	0c	RSDNLAR (1324)	0f	DRSVLHR (1421)	C1k
71304	agGCGCGAGCAGCGGGAac (1279)	QSGHLSR (1331)	0a	RSADLTR (1322)	0f	QSGDLTR (1352)	0c	QNAHRKT (1332)	0f	RRSDLKR (1326)	C1k		
71309	gcGGCGCAgGCGCGAGCAGCGgg (1280)	RSDDLTR (1328)	0f	QAATLSR (1362)	0c	QNAHRKT (1332)	0f	RRSDLKR (1326)	1c	QSGDLTR (1352)	0f	TQGYLRK (1384)	C1k
71310	ggGCGGCGCAGGCGCGAgc (1281)	QNAHRKT (1332)	0f	RSADRKK (1363)	0c	RSDNLSA (1392)	0f	RSNDRKK (1405)	0a	RSDDLTR (1328)	C1k		
71312	cgGGCGGCGCAGGCGCGAGCag (1282)	MSCCRSA (1333)	0f	RSADLSR (1364)	0c	DRSHLTR (1342)	0f	QSGDLTR (1352)	0c	DRSHLSR (1345)	0f	DRSHLAR (1356)	C1k
71341	gtGACTGCGAGGGCGCGCg (1283)	RSADLTR (1322)	0f	DRSHLAR (1356)	0c	RSANLTR (1393)	0a	SSGHLPP (1335)	0f	DRSNLTR (1361)	C1k		
71343	gtGGCGGTGACTGCGAGGGCgc (1284)	DSSHRTR (1334)	0f	MQNYLSR (1365)	0c	SSGHLPP (1335)	0f	DRSNLTR (1361)	0c	TSGHLSR (1336)	0f	DRSHLAR (1356)	C1k
71345	ggTGGCGGtGACTGCGAGGGCgc (1285)	DSSHRTR (1334)	0f	MQNYLSR (1365)	0c	SSGHLPP (1335)	0f	DRSNLTR (1361)	1c	RSDHLSE (1387)	0f	RNQHRKN (1422)	C1k
71347	tgGGTGGCGGTGACTGCGAGgg (1286)	RSDNLAR (1324)	0f	FREGLYK (1366)	0c	DRSNLSR (1394)	0f	LKQHLTR (1372)	0c	DRSHLTR (1342)	0f	LKQHLTR (1372)	C1k

FIG. 2

ZFP ID	Target Sequence (capital letters)	DNA-Recognition Helix Amino Acid Sequence Within Each Finger											
		F1	L1	F2	L2	F3	L3	F4	L4	F5	L5	F6	L6
71351	tgGTGGGTGGCGGTGACTGCga	SSGHLPP (1335)	0f	DRSNLTR (1361)	0c	TSGHLSR (1336)	0f	DRSHLAR (1356)	0c	LRHHLTR (1325)	0f	RRFTLSK (1357)	C1k
71352	ctGGTGGGtGGCGGTGACTGCga	SSGHLPP (1335)	0f	DRSNLTR (1361)	0c	TSGHLSR (1336)	0f	DRSHLAR (1356)	1c	RSAHLSR (1337)	0f	TSGHLSR (1336)	C1k
71357	cgGAGCTGGTGGGTGGCGGTga	TSGHLSR (1336)	0f	DRSHLAR (1356)	0c	LRHHLTR (1325)	0f	RRFTLSK (1357)	0c	DDWNLSQ (1414)	0f	RSANLTR (1393)	C1k
71364	tgGTGCCGGAGCTGGTGGGTgg	LRHHLTR (1325)	0f	RRFTLSK (1357)	0c	RSDVLSE (1388)	0f	KHSTRRV (1403)	0c	RSDTLSE (1415)	0f	HHSALRV (1423)	C1k
71366	ttGGTGCCGGAGCTGGTGGGtg	RSAHLSR (1337)	0f	TSGHLSR (1336)	0c	QSSDLSR (1338)	0f	QSGHLSR (1331)	0c	ERGTLAR (1323)	0f	TSGSLTR (1368)	C1k
71370	ctGCTGTTGGTGCCGGAGCTgg	QSSDLSR (1338)	0f	QSGHLSR (1331)	0c	ERGTLAR (1323)	0f	TSGSLTR (1368)	0c	TSGSLSR (1340)	0f	HSSDLNR (1370)	C1k
71373	gcGCTGCTGTTGGTGCCGGAgc	QSGHLAR ((1323))(1293)	0f	CPKCRNK (1367)	0c	LRHHLTR (1325)	0f	HRSARKR (1369)	0c	QSSDLSR (1338)	0f	HRSTRNR (1406)	C1k
71374	gcGGCGCTGCTGTTGGTGCCgg	ERGTLAR ((1324))(1294)	0f	TSGSLTR (1368)	0c	TSGSLSR (1340)	0f	HSSDLNR (1370)	0c	QSSDLSR (1338)	0f	DRSHLAR (1356)	C1k
71377	gcAGCGGCGCTGCTGTTGGTgc	LRHHLTR ((1325))(1295)	0f	HRSARKR (1369)	0c	QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
71378	ggTGGCAGcGGCGCTGCTGTTgg	TSGSLSR ((1326))(1296)	0f	HSSDLNR (1370)	0c	QSSDLSR (1338)	0f	DRSHLAR (1356)	1c	RSDNLST (1416)	0f	FHSCLSA (1425)	C1k
71385	agAAGGTGgGCGGTGGCAGCGgc	RSDDLSK ((1327))(1297)	0f	QSATRTK (1371)	0c	RSDVLSK (1395)	0f	RSDDRIK (1407)	1c	RQDCLSL (1396)	0f	RNDNRKT (1408)	C1k
71389	cgGCAGAAGGTGGGcGGTGGCag	DRSHLTR ((1328))(1298)	0f	LKQHLTR (1372)	1c	RSAHLSR (1337)	0f	TSGHLSR (1336)	0c	QSGNLAR (1344)	0f	QSGDLTR (1352)	C1k
71391	ggCGGCAGAAGGTGgGCGGTGgc	LRHHLTR ((1329))(1299)	0f	MACCRYA (1373)	1c	RQDCLSL (1396)	0f	RNDNRKT (1408)	0c	RSDNLSQ (1391)	0f	RSNARTN (1404)	C1k
71393	gtGGCGGCgGCAGAAGGTGGGcg	RSAHLSR ((1337))	0f	TSGHLSR (1336)	0c	QSGNLAR (1344)	0f	QSGDLTR (1352)	1c	DRSHLSR (1345)	0f	DRSHLAR (1356)	C1k
71395	gtGGTGGCGGCGGCAGAAGGtg	RSDHLSQ ((1343))	0f	QNAHRIT (1374)	0c	DRSHLSR (1345)	0f	DRSHLAR (1356)	0c	DRSHLTR (1342)	0f	LKQHLTR (1372)	C1k
71397	gcTGTGGTGGCGGCgGCAGAAgg	QSGNLAR ((1344))	0f	QSGDLTR (1352)	1c	DRSHLSR (1345)	0f	DRSHLAR (1356)	0c	LRHHLTR (1325)	0f	HKQHRDA (1375)	C1k
71398	gtGGCTGTGGTGGCGGCGGCag	DRSHLSR ((1345))	0f	DRSHLAR (1356)	0c	DRSHLTR (1342)	0f	LKQHLTR (1372)	0c	WRSCRSA (1397)	0f	DSSHRTR (1334)	C1k
71399	ggTGGCTGtGGTGGCGGCGGCag	DRSHLSR ((1345))	0f	DRSHLAR (1356)	0c	DRSHLTR (1342)	0f	LKQHLTR (1372)	1c	RSDVLSE (1388)	0f	RNQHRKT (1426)	C1k

FIG. 2 Cont'd

ZFP ID	Target Sequence (capital letters)	DNA-Recognition Helix Amino Acid Sequence Within Each Finger											
		F1	L1	F2	L2	F3	L3	F4	L4	F5	L5	F6	L6
71400	aaGGTGGCTGTGGTGGCGGCgg	DRSHLSR (1345)	0f	DRSHLAR (1356)	0c	LRHHLTR (1325)	0f	HKQHRDA (1375)	0c	DRSHLTR (1342)	0f	LKQHLTR (1372)	C1k
71401	gaGAAGGTGGCTGTGGTGGCGgg	DRSHLTR (1342)	0f	LKQHLTR (1372)	0c	WRSCRSA (1397)	0f	DSSHRTR (1334)	0c	TSGHLSR (1336)	0f	QSGNLAR (1344)	C1k
71402	gaGGAGAAAGGTGGCTGTGGTgg	LRHHLTR (1325)	0f	HKQHRDA (1375)	0c	DRSHLTR (1342)	0f	LKQHLTR (1372)	0c	QSSNLAR (1347)	0f	QSGHLSR (1331)	C1k
71414	agGACGGGaGAGGACAGCGGAgg	QSGHLAR (1339)	0f	SPCCRYH (1376)	0c	DRSNLSR (1394)	0f	TSANLSR (1355)	1c	RSAHLSR (1337)	0f	DRSNLTR (1361)	C1k
71420	gaGGCGAGGACGGGAGAGGACa	QSGHLAR (1339)	0f	QLTHLNS (1377)	0c	RSAHLSR (1337)	0f	DRSNLTR (1361)	0c	RSANLAR (1349)	0f	DRSHLAR (1356)	C1k
71421	ccTCTGTCGACTATCAGgt	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	0a	RNSDRTK (1417)	C1k		
71424	ctGTCGACTATCAGgTAAGCGcc	RSADLTR (1322)	0f	QSANRTK (1379)	1c	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	C1k
71437	ggTAAGCGCCGCGGcTCCGAAat	QSSNLAR (1347)	0f	DSSDRKK (1380)	1c	RSDHLSE (1387)	0f	RNRDRIT (1410)	0c	RSADLTR (1322)	0f	QSANRTK (1379)	C1k
71447	cgGACGGCGAGGCAGATtt	TSGNLTR (1348)	0f	QQNTLTM (1381)	0c	RSDNLTR (1398)	0a	DRSHLTR (1342)	0f	DRSNLTR (1361)	C1k		
71448	agGCGGACGGCGAGGCAGATtt	TSGNLTR (1348)	0f	QQNTLTM (1381)	0c	RSDNLAR (1324)	0f	DRSHLAR (1356)	0c	DRSNLSR (1394)	0f	DAFTRTR (1427)	C1k
71453	gtGCACAGaGGCGGAcGGCGAGgc	RSANLAR (1349)	0f	DRSHLAR (1356)	1c	DRSHLTR (1342)	0f	DRSHLAR (1356)	1c	RSDALSE (1418)	0f	QNATRTK (1383)	C1k
71467	ggGGCGGCGGCGCCAGGGGTGca	RSDSLSA (1350)	0f	RSDHLSR (1382)	0c	QSGDLTR (1352)	0f	TQGYLRK (1384)	0c	DRSHLSR (1345)	0f	DRSHLAR (1356)	C1k
71468	gcGAGGGGcGGCGGCGCAGGGGt	RSDHLSK (1351)	0f	QNATRTK (1383)	0c	DRSHLSR (1345)	0f	DRSHLAR (1356)	1c	RSAHLSR (1337)	0f	TSANLSR (1355)	C1k
71470	agGGCGAGgGGCGGCGGCGCAgg	QSGDLTR (1352)	0f	TQGYLRK (1384)	0c	DRSHLSR (1345)	0f	DRSHLAR (1356)	1c	RSDNLAR (1324)	0f	DRSHLAR (1356)	C1k
71472	ggGAGGGCGAGGGGcGGCGGCgc	DRSHLSR (1345)	0f	DRSHLAR (1356)	1c	RSAHLSR (1337)	0f	TSANLSR (1355)	0c	DSSHRTR (1334)	0f	MQNYLSR (1365)	C1k
71485	gcGCCGGGCATCGGTCGGGCc	RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	RSDHLST (1399)	0f	TNSNRIT (1411)	0c	RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
71503	gcCAGGGCGGCCTGGAAAGGga	RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	RSDALSV (1400)	0f	DSSHRTR (1334)	0c	DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k

FIG. 2 Cont'd

ZFP ID	Amino Acid sequence (helix, ZF linker, & interdomain linker)
52288 (1430)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSGDLTR**HTKIHTGSQKPFQCRICMRNFS**RSDHLSE**HIR THTGEKPFACDICGRKFA**RSAHLSR**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQ LTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
52389 (1431)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**ERGTLAR**HIRTHTGEKPFACDICGRKFA**TSANLSR**HTKIHTHPRAPIPKPFQCRICMRNFS**TSGNLT R**HIRTHTGEKPFACDICGRKFA**HRTSLTD**HTKIHTGSQKPFQCRICMRNFS**RSHSLLR**HIRTHTGEKPFACDICGRKFA**HPSARKR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
52364 (1432)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLAR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**QSGNLAR**HIR THTGEKPFACDICGRKFA**QSNTRIM**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQ LTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
57890 (1433)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**RRFTLSK**HTKIHTGSQKPFQCRICMRNFS**RSDVLSE**HIR THTGEKPFACDICGRKFA**KHSTRRV**HTKIHTGSQKPFQCRICMRNFS**RSDVLSE**HIRTHTGEKPFACDICGRKFA**RLYTLHK**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71214 (1434)	MAPKKKRKVGVPAAMAERPFQCRICMRKFA**RRSDLKR**HTKIHTGEKPFQCRICMRNFS**DQSNLRA**HIRTHTGEKPFACDICGRKFA**RKSDRIK**HTKI HTGSQKPFQCRICMRNFS**RSDSLSR**HIRTHTGEKPFACDICGKKFA**DRSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEW KLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
71218 (1435)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDSLSR**HIRTHTGEKPFACDICGKKFA**DRSDRTK**HTKIHTGSQKPFQCRICMRNFS**RKQTRTT**HIR THTGEKPFACDICGRKFA**RRSDLKR**HTKIHTGSQKPFQCRICMRNFS**DQSNLRA**HIRTHTGEKPFACDICGRKFA**RRSDLKR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71225 (1436)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDDLTR**HIRTHTGEKPFACDICGRKFA**MSYQLGR**HTKIHTGSQKPFQCRICMRNFS**QAHHLRT**HIR THTGEKPFACDICGRKFA**DRSNLTR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71227 (1437)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QAHHLRT**HIRTHTGEKPFACDICGRKFA**DRSNLTR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**YDYGRYT**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS

FIG. 3

ZFP ID	Amino Acid sequence (helix, ZF linker, & interdomain linker)
71249 (1438)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DRSYRNT**HIRTHTGEKPFACDICGRKFA**RRSDLKR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDNLS** **Q**HIRTHTGEKPFACDICGRKFA**RSNARTN**HTKIHTGSQKPFQCRICMRNFS**RSDNLAR**HIRTHTGEKPFACDICGRKFA**DRSVLHR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71304 (1439)	MAPKKKRKVGVPAAMAERPFQCRICMRKFA**QSGHLSR**HTKIHTGEKPFQCRICMRNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSGDLTR**HTKI HTGSQKPFQCRICMRNFS**QNAHRKT**HIRTHTGEKPFACDICGRKFA**RRSDLKR**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEW KLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
71309 (1440)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDDLTR**HIRTHTGEKPFACDICGRKFA**QAATLSR**HTKIHTGSQKPFQCRICMRNFS**QNAHRKT**HIR THTGEKPFACDICGRKFA**RRSDLKR**HTKIHTHPRAPIPKPFQCRICMRNFS**QSGDLTR**HIRTHTGEKPFACDICGRKFA**TQGYLRK**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71310 (1441)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QNAHRKT**HIRTHTGEKPFACDICGRKFA**RSADRKK**HTKIHTGSQKPFQCRICMRNFS**RSDNLSA**HIR THTGEKPFACDICGRKFA**RSNDRKK**HTKIHTGEKPFQCRICMRKFA**RSDDLTR**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEW KLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
71312 (1442)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**MSCCRSA**HIRTHTGEKPFACDICGRKFA**RSADLSR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIR THTGEKPFACDICGRKFA**QSGDLTR**HTKIHTGSQKPFQCRICMRNFS**DRSHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71341 (1443)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRKFA**RSANLTR**HTK IHTGEKPFQCRICMRNFS**SSGHLPP**HIRTHTGEKPFACDICGRKFA**DRSNLTR**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEW KLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
71343 (1444)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**MQNYLSR**HTKIHTGSQKPFQCRICMRNFS**SSGHLPP**HIR THTGEKPFACDICGRKFA**DRSNLTR**HTKIHTGSQKPFQCRICMRNFS**TSGHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71345 (1445)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**MQNYLSR**HTKIHTGSQKPFQCRICMRNFS**SSGHLPP**HIR THTGEKPFACDICGRKFA**DRSNLTR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDHLSE**HIRTHTGEKPFACDICGKKFA**RNQHRKN**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS

FIG. 3 Cont'd

ZFP ID	Amino Acid sequence (helix, ZF linker, & interdomain linker)
71347 (1446)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLAR**HIRTHTGEKPFACDICGRKFA**FREGLYK**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIR THTGEKPFACDICGRKFA**LKQHLTR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**LKQHLTR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71351 (1447)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**SSGHLPP**HIRTHTGEKPFACDICGRKFA**DRSNLTR**HTKIHTGSQKPFQCRICMRNFS**TSGHLSR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**RRFTLSK**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71352 (1448)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**SSGHLPP**HIRTHTGEKPFACDICGRKFA**DRSNLTR**HTKIHTGSQKPFQCRICMRNFS**TSGHLSR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**TSGHLSR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71357 (1449)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**TSGHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**LRHHLTR**HIR THTGEKPFACDICGRKFA**RRFTLSK**HTKIHTGSQKPFQCRICMRNFS**DDWNLSQ**HIRTHTGEKPFACDICGRKFA**RSANLTR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71364 (1450)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**RRFTLSK**HTKIHTGSQKPFQCRICMRNFS**RSDVLSE**HIR THTGEKPFACDICGRKFA**KHSTRRV**HTKIHTGSQKPFQCRICMRNFS**RSDTLSE**HIRTHTGEKPFACDICGRKFA**HHSALRV**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71366 (1451)	MAPKKKRKVGVPAAMAERPFQCRICMRNFSRSA**HLSRHIR**THTGEKPFACDICGRKFA**TSGHLSR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIR THTGEKPFACDICGRKFA**QSGHLSR**HTKIHTGSQKPFQCRICMRNFS**ERGTLAR**HIRTHTGEKPFACDICGRKFA**TSGSLTR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71370 (1452)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QSSDLSR**HIRTHTGEKPFACDICGRKFA**QSGHLSR**HTKIHTGSQKPFQCRICMRNFS**ERGTLAR**HIR THTGEKPFACDICGRKFA**TSGSLTR**HTKIHTGSQKPFQCRICMRNFS**TSGSLSR**HIRTHTGEKPFACDICGRKFA**HSSDLNR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS

FIG. 3 Cont'd

ZFP ID	Amino Acid sequence (helix, ZF linker, & interdomain linker)
71373 (1453)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QSGHLAR**HIRTHTGEKPFACDICGRKFA**CPKCRNK**HTKIHTGSQKPFQCRICMRNFS**LRHHLTR**HIR THTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIRTHTGEKPFACDICGRKFA**HRSTRNR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71374 (1454)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**ERGTLAR**HIRTHTGEKPFACDICGRKFA**TSGSLTR**HTKIHTGSQKPFQCRICMRNFS**TSGSLSR**HIR THTGEKPFACDICGRKFA**HSSDLNR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71377 (1455)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIR THTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLRN**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71378 (1456)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**TSGSLSR**HIRTHTGEKPFACDICGRKFA**HSSDLNR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDNLST**HIRTHTGEKPFACDICGRKFA**FHSCLSA**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71385 (1457)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDDLSK**HIRTHTGEKPFACDICGRKFA**QSATRTK**HTKIHTGSQKPFQCRICMRNFS**RSDVLSK**HIR THTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMRNFS**RQDCLSL**HIRTHTGEKPFACDICGRKFA**RNDNRKT**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71389 (1458)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**LKQHLTR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSAHLS R**HIRTHTGEKPFACDICGRKFA**TSGHLSR**HTKIHTGSQKPFQCRICMRNFS**QSGNLAR**HIRTHTGEKPFACDICGRKFA**QSGDLTR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71391 (1459)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDVLSK**HIRTHTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDVLS E**HIRTHTGEKPFACDICGRKFA**KRWNRQQ**HTKIHTGSQKPFQCRICMRNFS**RSDNLSQ**HIRTHTGEKPFACDICGRKFA**RSNARTN**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS

FIG. 3 Cont'd

ZFP ID	Amino Acid sequence (helix, ZF linker, & interdomain linker)
71393 (1460)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**TSGHLSR**HTKIHTGSQKPFQCRICMRNFS**QSGNLAR**HIR THTGEKPFACDICGRKFA**QSGDLTR**HTKIHTHPRAPIPKPFQCRICMRNFS**DRSHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71395 (1461)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDHLSQ**HIRTHTGEKPFACDICGRKFA**QNAHRIT**HTKIHTGSQKPFQCRICMRNFS**DRSHLSR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**LKQHLTR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71397 (1462)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QSGNLAR**HIRTHTGEKPFACDICGRKFA**QSGDLTR**HTKIHTHPRAPIPKPFQCRICMRNFS**DRSHLS RHIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HKQHRDA**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71398 (1463)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DRSHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIR THTGEKPFACDICGRKFA**LKQHLTR**HTKIHTGSQKPFQCRICMRNFS**WRSCRSA**HIRTHTGEKPFACDICGRKFA**DSSHRTR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71399 (1464)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DRSHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIR THTGEKPFACDICGRKFA**LKQHLTR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDVLSE**HIRTHTGEKPFACDICGRKFA**RNQHRKT**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71400 (1465)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DRSHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**LRHHLTR**HIR THTGEKPFACDICGRKFA**HKQHRDA**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**LKQHLTR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71401 (1466)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**LKQHLTR**HTKIHTGSQKPFQCRICMRNFS**WRSCRSA**HIR THTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMRNFS**TSGHLSR**HIRTHTGEKPFACDICGRKFA**QSGNLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS

FIG. 3 Cont'd

ZFP ID	Amino Acid sequence (helix, ZF linker, & interdomain linker)
71402 (1467)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HKQHRDA**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIR THTGEKPFACDICGRKFA**LKQHLTR**HTKIHTGSQKPFQCRICMRNFS**QSSNLAR**HIRTHTGEKPFACDICGRKFA**QSGHLSR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71414 (1468)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QSGHLAR**HIRTHTGEKPFACDICGRKFA**SPCCRYH**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIR THTGEKPFACDICGRKFA**TSANLSR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSNLTR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71420 (1469)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QSGHLAR**HIRTHTGEKPFACDICGRKFA**QLTHLNS**HTKIHTGSQKPFQCRICMRNFS**RSAHLSR**HIR THTGEKPFACDICGRKFA**DRSNLTR**HTKIHTGSQKPFQCRICMRNFS**RSANLAR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71421 (1470)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIR THTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMRKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEW KLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
71424 (1471)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDNLS EH**IRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DSSARNT**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71437 (1472)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QSSNLAR**HIRTHTGEKPFACDICGRKFA**DSSDRKK**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDHLS EH**IRTHTGEKPFACDICGRKFA**RNRDRIT**HTKIHTGSQKPFQCRICMRNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71447 (1473)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**TSGNLTR**HIRTHTGEKPFACDICGRKFA**QQNTLTM**HTKIHTGSQKPFQCRICMRKFA**RSDNLTR**HTK IHTGEKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**DRSNLTR**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEW KLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
71448 (1474)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**TSGNLTR**HIRTHTGEKPFACDICGRKFA**QQNTLTM**HTKIHTGSQKPFQCRICMRNFS**RSDNLAR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DAFTRTR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS

FIG. 3 Cont'd

ZFP ID	Amino Acid sequence (helix, ZF linker, & interdomain linker)
71453 (1475)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSANLAR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTHPRAPIPKPFQCRICMRNFS**DRSHLT** **R**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDALSE**HIRTHTGEKPFACDICGRKFA**QNATRTK**HTKIHLR QKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSE TAFEIKSSVRS
71467 (1476)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDSLSA**HIRTHTGEKPFACDICGRKFA**RSDHLSR**HTKIHTGSQKPFQCRICMRNFS**QSGDLTR**HIR THTGEKPFACDICGRKFA**TQGYLRK**HTKIHTGSQKPFQCRICMRNFS**DRSHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71468 (1477)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDHLSK**HIRTHTGEKPFACDICGRKFA**QNATRTK**HTKIHTGSQKPFQCRICMRNFS**DRSHLSR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**TSANLSR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71470 (1478)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**QSGDLTR**HIRTHTGEKPFACDICGRKFA**TQGYLRK**HTKIHTGSQKPFQCRICMRNFS**DRSHLSR**HIR THTGEKPFACDICGRKFA**DRSHLAR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDNLAR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71472 (1479)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**DRSHLSR**HIRTHTGEKPFACDICGRKFA**DRSHLAR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSAHLS** **R**HIRTHTGEKPFACDICGRKFA**TSANLSR**HTKIHTGSQKPFQCRICMRNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**MQNYLSR**HTKIHLRQKDA ARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFE IKSSVRS
71485 (1480)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMRNFS**RSDHLST**HIR THTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS
71503 (1481)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLSN**HIRTHTGEKPFACDICGRKFA**TSSSRIN**HTKIHTGSQKPFQCRICMRNFS**RSDALSV**HIR THTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMRNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AKWNLDA**HTKIHLRQKDAARGS GGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSS VRS

FIG. 3 Cont'd

ZFP ID	Target Sequence (capital letters)	DNA-Recognition Helix Amino Acid Sequence Within Each Finger											
		F1	L1	F2	L2	F3	L3	F4	L4	F5	L5	F6	L6
65918	cgGCAGAAGGTGGGcGGTGGCgg (1482)	^DRSHLTR (1342)	0f	LKQHLTR (1372)	1c	RSAHLSR (1337)	0f	TSGHLSR (1336)	0c	^QSGNLAR (1344)	0f	QSGDLTR (1352)	C1k
73015	gcAGCGGCGCTGCTGTTGGTgc ((1325))(1294)	^LRHHLTR (1325)	0f	HRSARKR (1369)	0c	QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
73016	gcAGCGGCGCTGCTGTTGGTgc ((1325))(1294)	LRHHLTR (1325)	0f	HRSARKR (1369)	0c	^QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
73017	gcAGCGGCGCTGCTGTTGGTgc ((1325))(1294)	LRHHLTR (1325)	0f	HRSARKR (1369)	0c	QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	^DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
73018	gcAGCGGCGCTGCTGTTGGTgc ((1325))(1294)	^LRHHLTR (1325)	0f	HRSARKR (1369)	0c	^QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
73019	gcAGCGGCGCTGCTGTTGGTgc ((1325))(1294)	^LRHHLTR (1325)	0f	HRSARKR (1369)	0c	QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	^DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
73020	gcAGCGGCGCTGCTGTTGGTgc ((1325))(1294)	LRHHLTR (1325)	0f	HRSARKR (1369)	0c	^QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	^DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
73021	gcAGCGGCGCTGCTGTTGGTgc ((1325))(1294)	^LRHHLTR (1325)	0f	HRSARKR (1369)	0c	^QSSDLSR (1338)	0f	HRSTRNR (1406)	0c	^DRSHLTR (1342)	0f	NSRNLRN (1424)	C1k
73029	agAAGGTGgGCGGTGGCAGCGgc ((1327))(1297)	^RSDDLSK (1341)	0f	QSATRTK (1371)	0c	RSDVLSK (1395)	0f	RSDDRIK (1407)	1c	RQDCLSL (1396)	0f	RNDNRKT (1408)	C1k
73030	agAAGGTGgGCGGTGGCAGCGgc ((1327))(1297)	RSDDLSK (1341)	0f	QSATRTK (1371)	0c	^RSDVLSK (1395)	0f	RSDDRIK (1407)	1c	RQDCLSL (1396)	0f	RNDNRKT (1408)	C1k
73031	agAAGGTGgGCGGTGGCAGCGgc ((1327))(1297)	RSDDLSK (1341)	0f	QSATRTK (1371)	0c	RSDVLSK (1395)	0f	RSDDRIK (1407)	1c	^RQDCLSL (1396)	0f	RNDNRKT (1408)	C1k
73032	agAAGGTGgGCGGTGGCAGCGgc ((1327))(1297)	^RSDDLSK (1341)	0f	QSATRTK (1371)	0c	^RSDVLSK (1395)	0f	RSDDRIK (1407)	1c	RQDCLSL (1396)	0f	RNDNRKT (1408)	C1k
73034	agAAGGTGgGCGGTGGCAGCGgc ((1327))(1297)	RSDDLSK (1341)	0f	QSATRTK (1371)	0c	^RSDVLSK (1395)	0f	RSDDRIK (1407)	1c	^RQDCLSL (1396)	0f	RNDNRKT (1408)	C1k
73035	agAAGGTGgGCGGTGGCAGCGgc ((1327))(1297)	^RSDDLSK (1341)	0f	QSATRTK (1371)	0c	^RSDVLSK (1395)	0f	RSDDRIK (1407)	1c	^RQDCLSL (1396)	0f	RNDNRKT (1408)	C1k
73120	ccTCTGTCGACTATCAGgt (1310)	^RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	0a	RNSDRTK (1417)	C1k		
73121	ccTCTGTCGACTATCAGgt (1310)	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	^DRSNLSR (1394)	0f	DSSARNT (1409)	0a	RNSDRTK (1417)	C1k		
73122	ccTCTGTCGACTATCAGgt (1310)	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	0a	^RNSDRTK (1417)	C1k		
73123	ccTCTGTCGACTATCAGgt (1310)	^RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	^DRSNLSR (1394)	0f	DSSARNT (1409)	0a	RNSDRTK (1417)	C1k		

FIG. 4

ZFP ID	Target Sequence (capital letters)	DNA-Recognition Helix Amino Acid Sequence Within Each Finger											
		F1	L1	F2	L2	F3	L3	F4	L4	F5	L5	F6	L6
73124	ccTCTGTCGACTATCAGgt (1310)	^RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	0a	^RNSDRTK (1417)	C1k		
73125	ccTCTGTCGACTATCAGgt (1310)	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	^DRSNLSR (1394)	0f	DSSARNT (1409)	0a	^RNSDRTK (1417)	C1k		
73126	ccTCTGTCGACTATCAGgt (1310)	^RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	^DRSNLSR (1394)	0f	DSSARNT (1409)	0a	^RNSDRTK (1417)	C1k		
73127	ctGTCGACTATCAGgTAAGCGcc (1311)	^RSADLTR (1322)	0f	QSANRTK (1379)	1c	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	C1k
73128	ctGTCGACTATCAGgTAAGCGcc (1311)	RSADLTR (1322)	0f	QSANRTK (1379)	1c	^RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	C1k
73129	ctGTCGACTATCAGgTAAGCGcc (1311)	RSADLTR (1322)	0f	QSANRTK (1379)	1c	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	^DRSNLSR (1394)	0f	DSSARNT (1409)	C1k
73130	ctGTCGACTATCAGgTAAGCGcc (1311)	^RSADLTR (1322)	0f	QSANRTK (1379)	1c	^RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	DRSNLSR (1394)	0f	DSSARNT (1409)	C1k
73131	ctGTCGACTATCAGgTAAGCGcc (1311)	^RSADLTR (1322)	0f	QSANRTK (1379)	1c	RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	^DRSNLSR (1394)	0f	DSSARNT (1409)	C1k
73133	ctGTCGACTATCAGgTAAGCGcc (1311)	^RSADLTR (1322)	0f	QSANRTK (1379)	1c	^RSDNLSE (1346)	0f	TSSNRKT (1378)	0c	^DRSNLSR (1394)	0f	DSSARNT (1409)	C1k
73190	gcGCCGGGCATCGGTCGGGGcc (1320)	^RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	RSDHLST (1399)	0f	TNSNRIT (1411)	0c	RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
73191	gcGCCGGGCATCGGTCGGGGcc (1320)	RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	^RSDHLST (1399)	0f	TNSNRIT (1411)	0c	RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
73192	gcGCCGGGCATCGGTCGGGGcc (1320)	RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	RSDHLST (1399)	0f	TNSNRIT (1411)	0c	^RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
73193	gcGCCGGGCATCGGTCGGGGcc (1320)	^RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	^RSDHLST (1399)	0f	TNSNRIT (1411)	0c	RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
73194	gcGCCGGGCATCGGTCGGGGcc (1320)	^RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	RSDHLST (1399)	0f	TNSNRIT (1411)	0c	^RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
73195	gcGCCGGGCATCGGTCGGGGcc (1320)	RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	^RSDHLST (1399)	0f	TNSNRIT (1411)	0c	^RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
73196	gcGCCGGGCATCGGTCGGGGcc (1320)	^RSDHLSN (1353)	0f	RSDDRKK (1385)	0c	^RSDHLST (1399)	0f	TNSNRIT (1411)	0c	^RSAHLSR (1337)	0f	DRSDLSR (1428)	C1k
73197	gcCAGGGCGGCCTGGAAAGGGa (1321)	^RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	RSDALSV (1400)	0f	DSSHRTR (1334)	0c	DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k
73198	gcCAGGGCGGCCTGGAAAGGGa (1321)	RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	^RSDALSV (1400)	0f	DSSHRTR (1334)	0c	DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k

FIG. 4 Cont'd

ZFP ID	Target Sequence (capital letters)	DNA-Recognition Helix Amino Acid Sequence Within Each Finger											
		F1	L1	F2	L2	F3	L3	F4	L4	F5	L5	F6	L6
73199	gcCAGGGCGGCCTGGAAAGGga (1321)	RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	RSDALSV (1400)	0f	DSSHRTR (1334)	0c	^DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k
73200	gcCAGGGCGGCCTGGAAAGGga (1321)	^RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	^RSDALSV (1400)	0f	DSSHRTR (1334)	0c	DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k
73201	gcCAGGGCGGCCTGGAAAGGga (1321)	^RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	RSDALSV (1400)	0f	DSSHRTR (1334)	0c	^DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k
73202	gcCAGGGCGGCCTGGAAAGGga (1321)	RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	^RSDALSV (1400)	0f	DSSHRTR (1334)	0c	^DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k
73203	gcCAGGGCGGCCTGGAAAGGga (1321)	^RSDNLSN (1354)	0f	TSSSRIN (1386)	0c	^RSDALSV (1400)	0f	DSSHRTR (1334)	0c	^DSSHRTR (1334)	0f	AKWNLDA (1429)	C1k

FIG. 4 Cont'd

ZFP ID	Amino Acid sequence (helix, R(-5)Q, ZF linker,& interdomain linker)
65918 (1483)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**LKQHLTR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSAHLSR** HIRTHTGEKPFACDICGRKFA**TSGHLSR**HTKIHTGSQKPFQCRICMQNFS**QSGNLAR**HIRTHTGEKPFACDICGRKFA**QSGDLTR**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS
73015 (1484)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIRT HTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLRN**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73016 (1485)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMQNFS**QSSDLSR**HIRT HTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLRN**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73017 (1486)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIRT HTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMQNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLR**NHTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73018 (1487)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMQNFS**QSSDLSR**HIRT HTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMRNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLRN**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73019 (1488)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMRNFS**QSSDLSR**HIRT HTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMQNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLRN**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73020 (1489)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMQNFS**QSSDLSR**HIRT HTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMQNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLRN**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS

FIG. 5

ZFP ID	Amino Acid sequence (helix, R(-5)Q, ZF linker,& interdomain linker)
73021 (1490)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**HRSARKR**HTKIHTGSQKPFQCRICMQNFS**QSSDLSR**HIRT HTGEKPFACDICGRKFA**HRSTRNR**HTKIHTGSQKPFQCRICMQNFS**DRSHLTR**HIRTHTGEKPFACDICGRKFA**NSRNLRN**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73029 (1491)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDDLSK**HIRTHTGEKPFACDICGRKFA**QSATRTK**HTKIHTGSQKPFQCRICMRNFS**RSDVLSK**HIRT HTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMRNFS**RQDCLSL**HIRTHTGEKPFACDICGRKFA**RNDNRKT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS
73030 (1492)	MAPKKKRKVGVPAAMAERPFQCRICMRNFSR**SDDLSK**HIRTHTGEKPFACDICGRKFA**QSATRTK**HTKIHTGSQKPFQCRICMQNFS**RSDVLSK**HIRT HTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMRNFS**RQDCLSL**HIRTHTGEKPFACDICGRKFA**RNDNRKT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS
73031 (1493)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDDLSK**HIRTHTGEKPFACDICGRKFA**QSATRTK**HTKIHTGSQKPFQCRICMRNFS**RSDVLSK**HIRT HTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMQNFS**RQDCLSL**HIRTHTGEKPFACDICGRKFA**RNDNRKT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS
73032 (1494)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDDLSK**HIRTHTGEKPFACDICGRKFA**QSATRTK**HTKIHTGSQKPFQCRICMQNFS**RSDVLSK**HIRT HTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMRNFS**RQDCLSL**HIRTHTGEKPFACDICGRKFA**RNDNRKT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS
73034 (1495)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDDLSK**HIRTHTGEKPFACDICGRKFA**QSATRTK**HTKIHTGSQKPFQCRICMQNFS**RSDVLSK**HIRT HTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMQNFS**RQDCLSL**HIRTHTGEKPFACDICGRKFA**RNDNRKT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS
73035 (1496)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDDLSK**HIRTHTGEKPFACDICGRKFA**QSATRTK**HTKIHTGSQKPFQCRICMQNFS**RSDVLSK**HIRT HTGEKPFACDICGRKFA**RSDDRIK**HTKIHTHPRAPIPKPFQCRICMQNFS**RQDCLSL**HIRTHTGEKPFACDICGRKFA**RNDNRKT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS

FIG. 5 Cont'd

ZFP ID	Amino Acid sequence (helix, R(-5)Q, ZF linker, & interdomain linker)
73120 (1497)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRT HTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMRKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKL LDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73121 (1498)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRT HTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMRKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKL LDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73122 (1499)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRT HTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMQKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKL LDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73123 (1500)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMQNFS**DRSNLSR**HIRT HTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMRKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKL LDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73124 (1501)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRT HTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMQKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKL LDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73125 (1502)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMQNFS**DRSNLSR**HIRT HTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMQKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKL LDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73126 (1503)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSE**HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMQNFS**DRSNLSR**HIRT HTGEKPFACDICGRKFA**DSSARNT**HTKIHTGEKPFQCRICMQKFA**RNSDRTK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKL LDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73127 (1504)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDNLSE** HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DSSARNT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS
73128 (1505)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHTHPRAPIPKPFQCRICMQNFS**RSDNLSE** HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DSSARNT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRS

FIG. 5 Cont'd

ZFP ID	Amino Acid sequence (helix, R(-5)Q, ZF linker, & interdomain linker)
73129 (1506)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDNLSE** HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMQNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DSSAARNT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVERE IHQETHPDSETAFEIKS SVRS
73130 (1507)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHTHPRAPIPKPFQCRICMQNFS**RSDNLSE** HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMRNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DSSAARNT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVERE IHQETHPDSETAFEIKS SVRS
73131 (1508)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHTHPRAPIPKPFQCRICMRNFS**RSDNLSE** HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMQNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DSSAARNT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVERE IHQETHPDSETAFEIKS SVRS
73133 (1509)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSADLTR**HIRTHTGEKPFACDICGRKFA**QSANRTK**HTKIHTHPRAPIPKPFQCRICMQNFS**RSDNLSE** HIRTHTGEKPFACDICGRKFA**TSSNRKT**HTKIHTGSQKPFQCRICMQNFS**DRSNLSR**HIRTHTGEKPFACDICGRKFA**DSSAARNT**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVERE IHQETHPDSETAFEIKS SVRS
73190 (1510)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMRNFS**RSDHLST**HIRT HTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVERE IHQETHPDSETAFEIKSSVRS
73191 (1511)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMQNFS**RSDHLST**HIRT HTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVERE IHQETHPDSETAFEIKSSVRS
73192 (1512)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMRNFS**RSDHLST**HIRT HTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMQNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVERE IHQETHPDSETAFEIKSSVRS

FIG. 5 Cont'd

ZFP ID	Amino Acid sequence (helix, R(-5)Q, ZF linker, & interdomain linker)
73193 (1513)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMQNFS**RSDHLST**HIRT HTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMRNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73194 (1514)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMRNFS**RSDHLST**HIRT HTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMQNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73195 (1515)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMQNFS**RSDHLST**HIRT HTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMQNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73196 (1516)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDHLSN**HIRTHTGEKPFACDICGRKFA**RSDDRKK**HTKIHTGSQKPFQCRICMQNFS**RSDHLST**HIRT HTGEKPFACDICGRKFA**TNSNRIT**HTKIHTGSQKPFQCRICMQNFS**RSAHLSR**HIRTHTGEKPFACDICGRKFA**DRSDLSR**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73197 (1517)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSN**HIRTHTGEKPFACDICGRKFA**TSSSRIN**HTKIHTGSQKPFQCRICMRNFS**RSDALSV**HIRT HTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMRNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AAKWNLDA**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73198 (1518)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLSN**HIRTHTGEKPFACDICGRKFA**TSSSRIN**HTKIHTGSQKPFQCRICMQNFS**RSDALSV**HIRT HTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMRNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AAKWNLDA**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73199 (1519)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLSN**HIRTHTGEKPFACDICGRKFA**TSSSRIN**HTKIHTGSQKPFQCRICMRNFS**RSDALSV**HIRT HTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMQNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AAKWNLDA**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS

FIG. 5 Cont'd

ZFP ID	Amino Acid sequence (helix, R(-5)Q, ZF linker, & interdomain linker)
73200 (1520)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSN**HIRTHTGEKPFA**TSSSRIN**HTKIHTGSQKPFQCRICMQNFS**RSDALSV**HIRT HTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMRNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AAKWNLDA**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73201 (1521)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSN**HIRTHTGEKPFA**TSSSRIN**HTKIHTGSQKPFQCRICMRNFS**RSDALSV**HIRT HTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMQNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AAKWNLDA**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73202 (1522)	MAPKKKRKVGVPAAMAERPFQCRICMRNFS**RSDNLSN**HIRTHTGEKPFA**TSSSRIN**HTKIHTGSQKPFQCRICMQNFS**RSDALSV**HIRT HTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMQNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AAKWNLDA**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
73203 (1523)	MAPKKKRKVGVPAAMAERPFQCRICMQNFS**RSDNLSN**HIRTHTGEKPFACDICGRKFA**TSSSRIN**HTKIHTGSQKPFQCRICMQNFS**RSDALSV**HIRT HTGEKPFACDICGRKFA**DSSHRTR**HTKIHTGSQKPFQCRICMQNFS**DSSHRTR**HIRTHTGEKPFACDICGRKFA**AAKWNLDA**HTKIHLRQKDAARGSGG DAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKSSVRS
65918-T2A-57890 (1524)	MAPKKKRKVGVPAAMAERPFQCRICMQNFST**DRSHLR**HIRTHTGEKPFACDICGRKFA**LKQHLTR**HTKIHTHPRAPIPKPFQCRICMRNFS**RSAHLSR** HIRTHTGEKPFACDICGRKFA**TSGHLSR**HTKIHTGSQKPFQCRICMQNFS**QSGNLAR**HIRTHTGEKPFACDICGRKFA**QSGDLTR**HTKIHLRQKDAAR GSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEEPWLVEREIHQETHPDSETAFEIKS SVRSGSGEGRGSLLTCGDVEENPGPRATMAPKKKRKVGVPAAMAERPFQCRICMRNFS**LRHHLTR**HIRTHTGEKPFACDICGRKFA**RRFTLSK**HTKIH TGSQKPFQCRICMRNFS**RSDVLSE**HIRTHTGEKPFACDICGRKFA**KHSTRRV**HTKIHTGSQKPFQCRICMRNFS**RSDVLSE**HIRTHTGEKPFACDICG RKFA**RLYTLHK**HTKIHLRQKDAARGSGGDAKSLTAWSRTLVTFKDVFVDFTREEWKLLDTAQQIVYRNVMLENYKNLVSLGYQLTKPDVILRLEKGEE PWLVEREIHQETHPDSETAFEIKSSVKL • T2A linker sequence is underlined by a waved line

FIG. 5 Cont'd

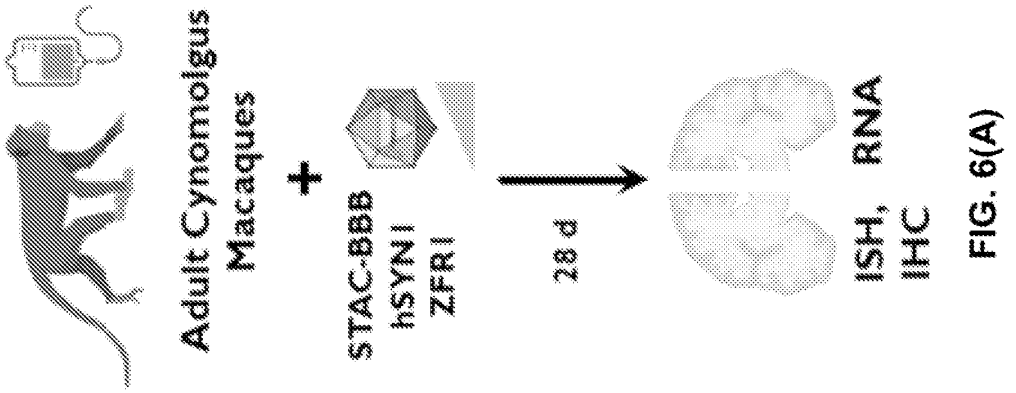

Adult Cynomolgus Macaques
+
STAC-BBB
hSYN1
ZFR1
28 d
ISH, RNA
IHC

FIG. 6(A)

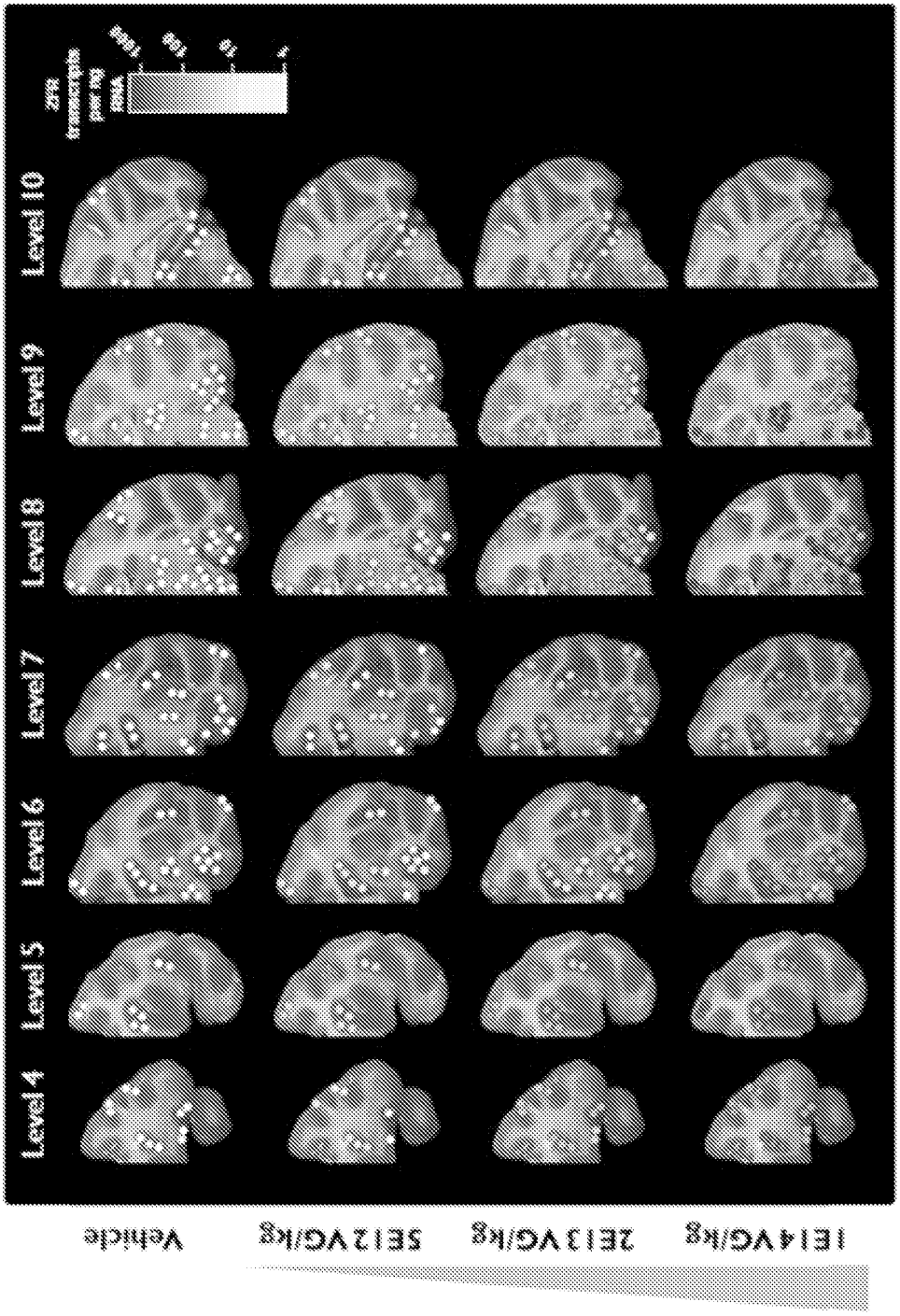
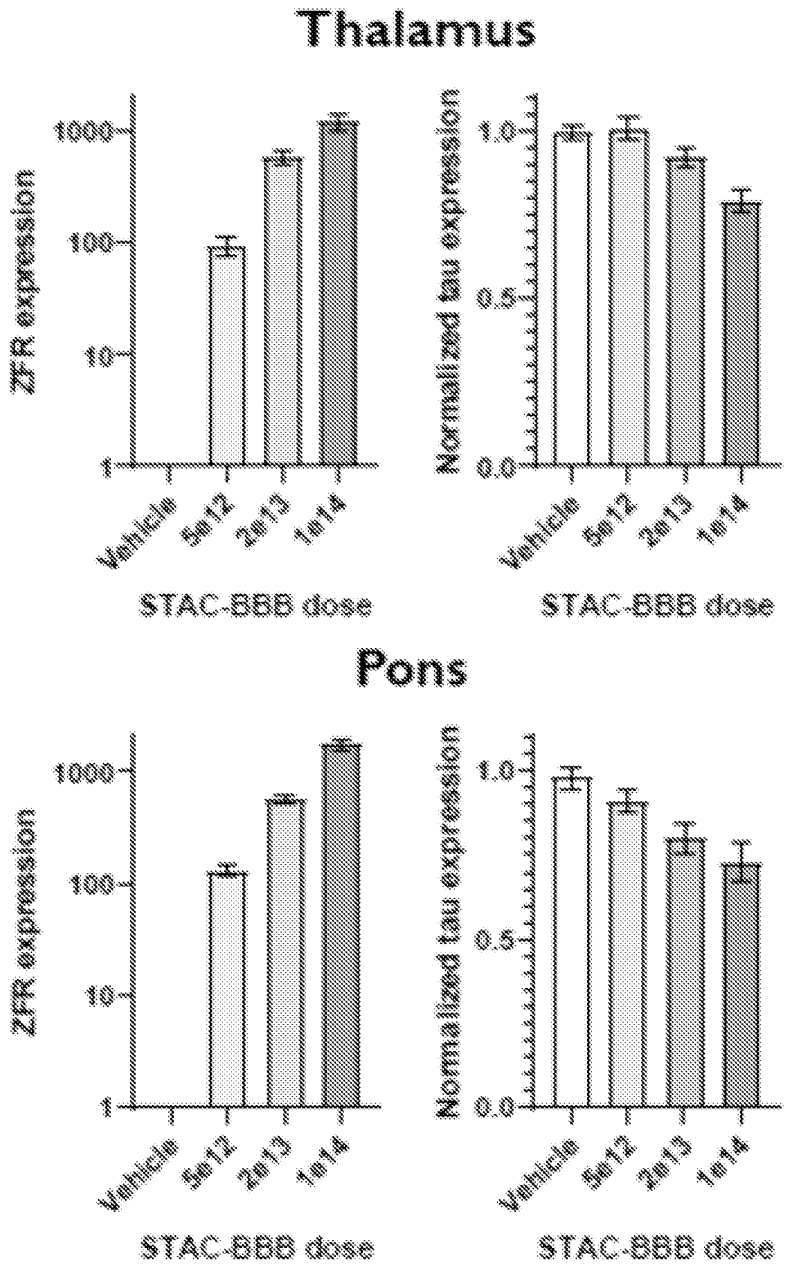
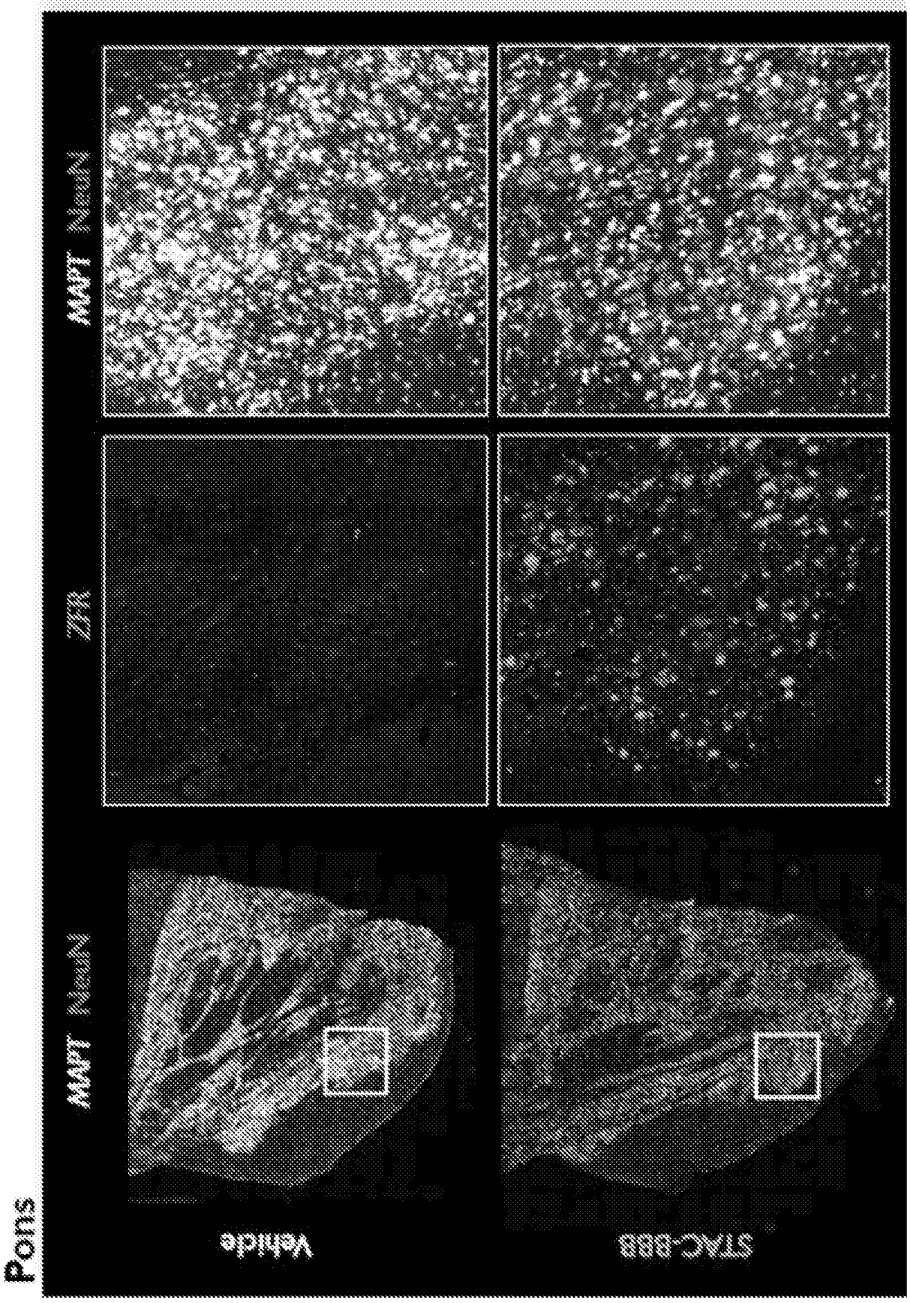

Level 10
Level 9
Level 8
Level 7
Level 6
Level 5
Level 4
Vehicle
5E12VG/kg
2E13VG/kg
1E14VG/kg

FIG. 6(B)



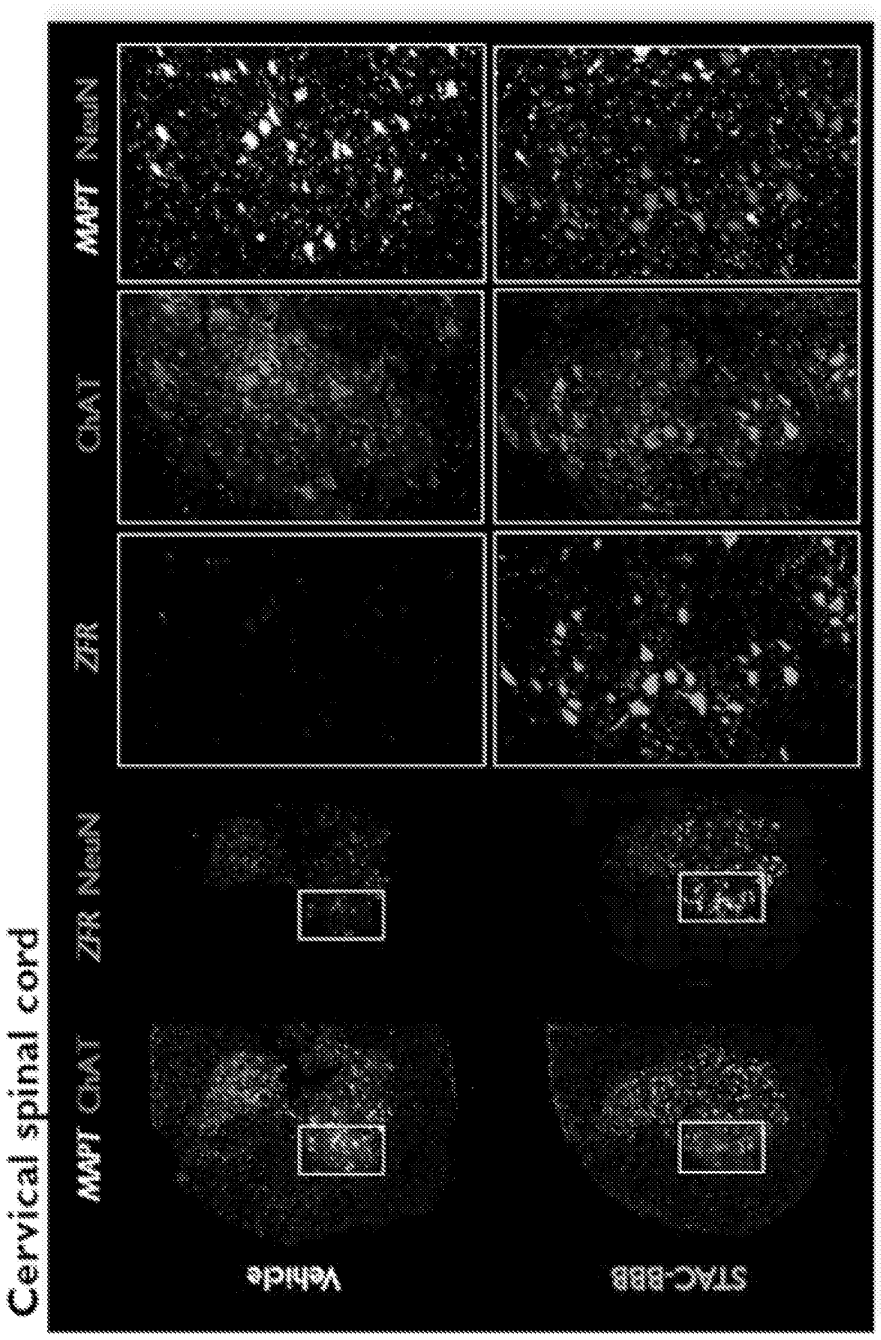
MAPT normalized to the mean of ATP5b, EIF4A2 and scaled to the mean of control-treated animals

FIG. 6(C)



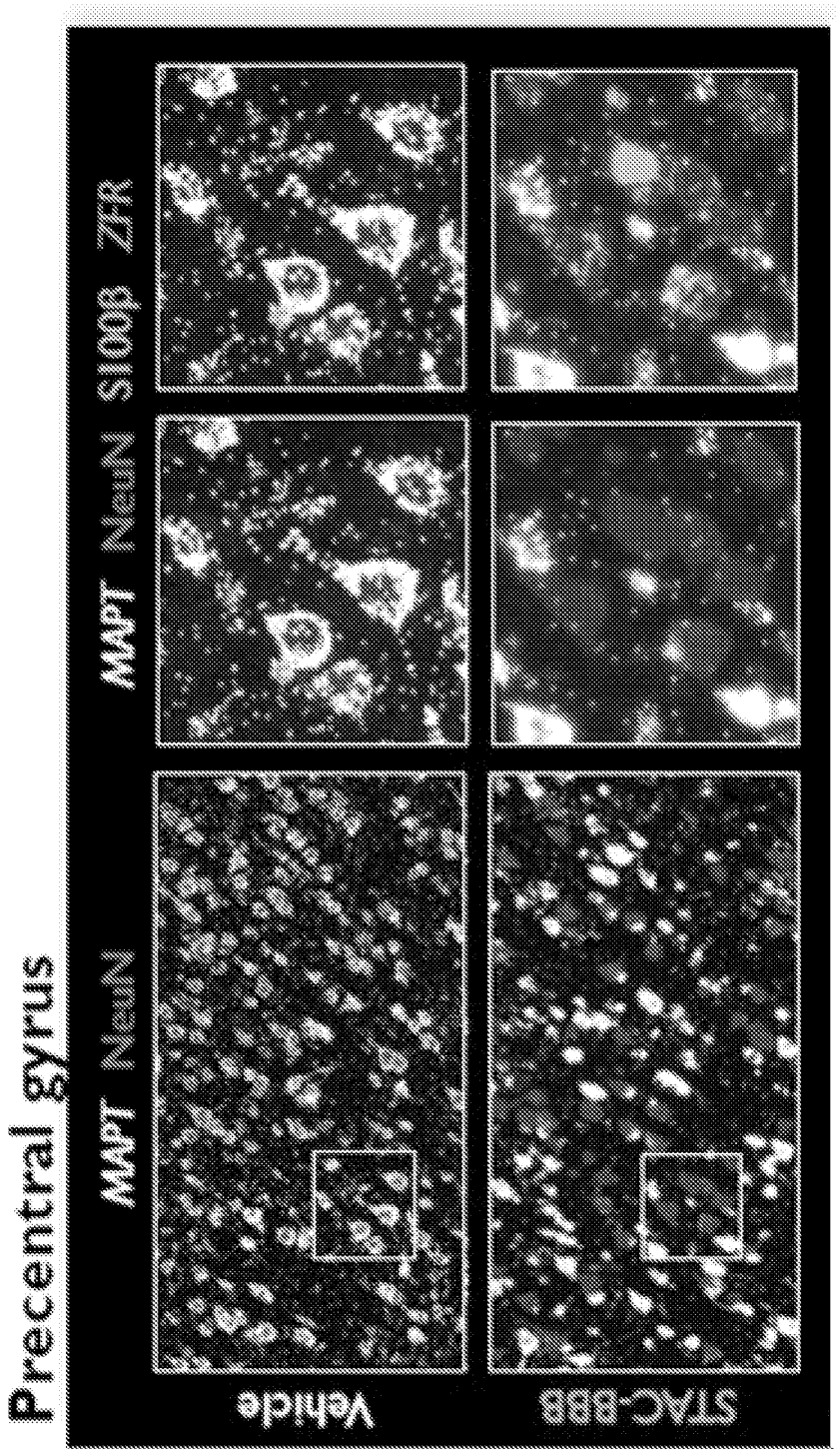
Multiplexed RNAscope ISH / IHC assay for: NeuN, MAPT mRNA, and ZFR mRNA (pons). Images from a representative NHP dosed at Ie14 vg/kg, 28 days post administration

FIG. 6(D)



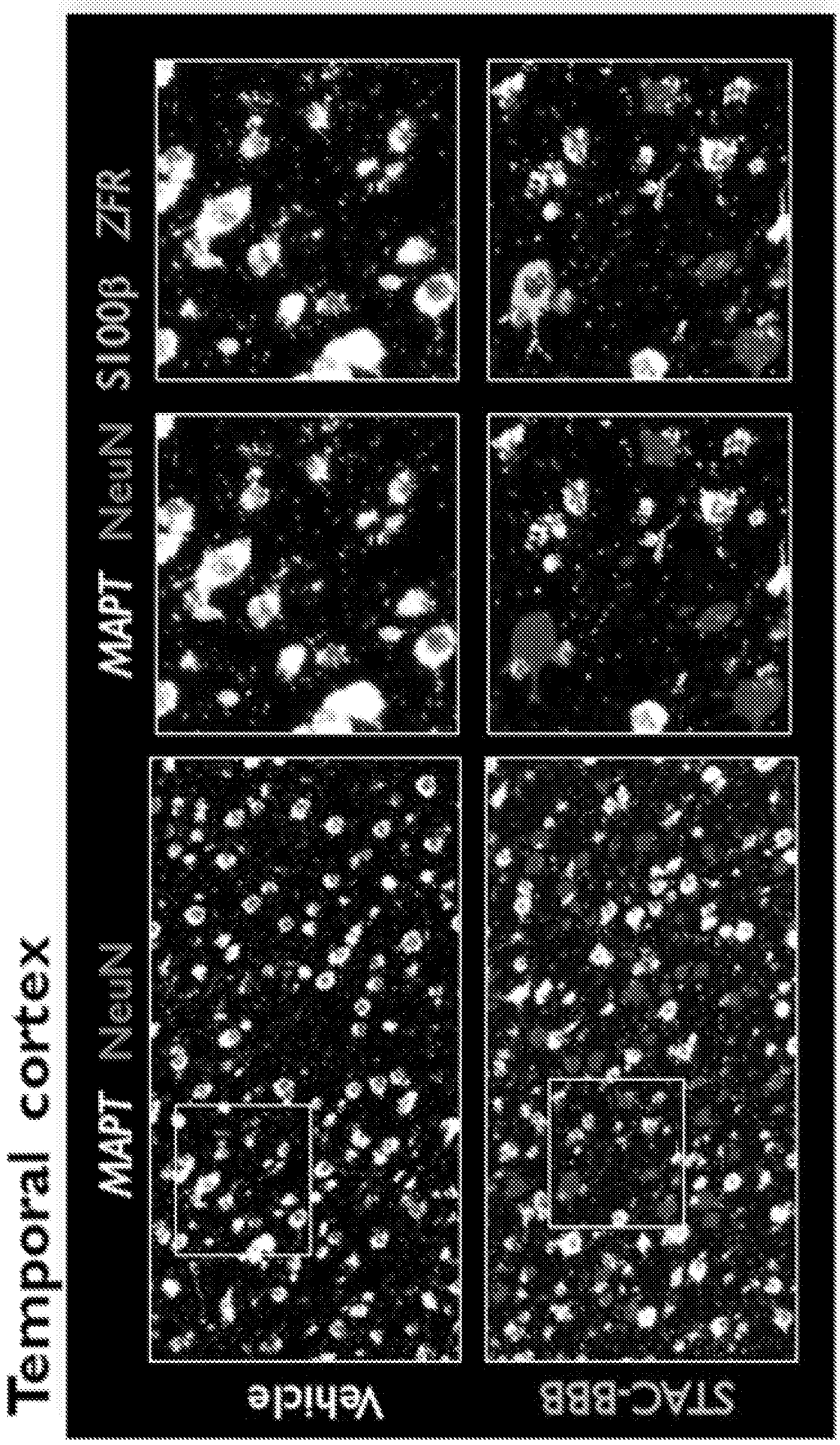
Multiplexed RNAscope ISH / IHC assay for: NeuN, ChAT, MAPT mRNA, and ZFR mRNA (cervical spinal cord). Images from a representative NHP dosed at 1e14 vg/kg, 28 days post administration

FIG. 6(E)



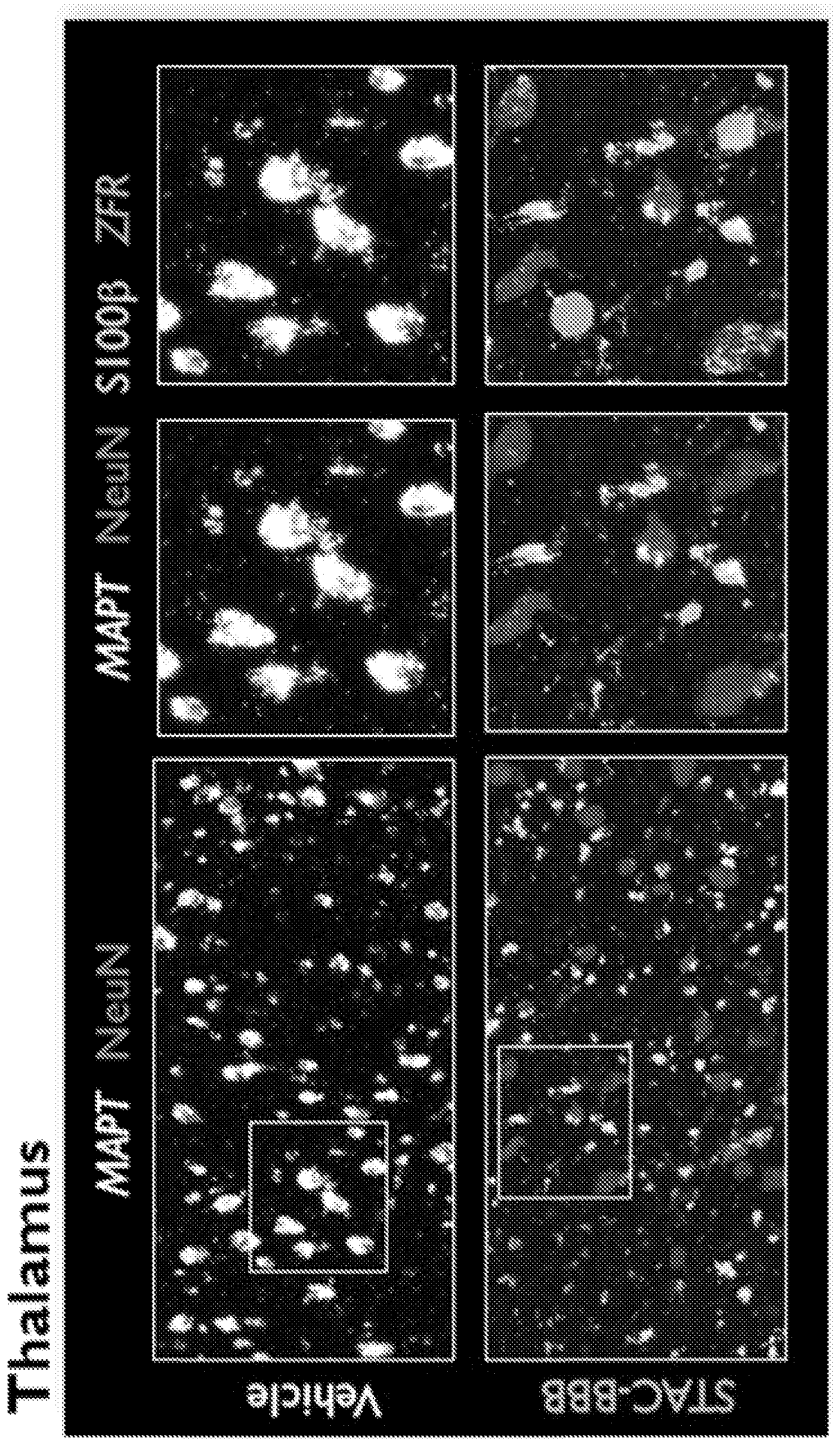
Multiplexed RNAscope ISH / IHC assay for: NeuN, S100β, MAPT mRNA, and ZFR mRNA (precentral gyrus). Images from a representative NHP dosed at Ief4 vg/kg, 28 days post administration

FIG. 6(F)



Multiplexed RNAscope ISH / IHC assay for: NeuN, S100β, MAPT mRNA, and ZFR mRNA (temporal cortex). Images from a representative NHP dosed at le14 vg/kg, 28 days post administration

FIG. 6(G)



Multiplexed RNAscope ISH / IHC assay for: NeuN, S100β, MAPT mRNA, and ZFR mRNA (thalamus). Images from a representative NHP dosed at Ie14 vg/kg, 28 days post administration

FIG. 6(H)