

1 10 20 30 40 50 60

Ekpoma-1 MYCLLNKKNVECKLPSEAPTQYTFSEFESNNHQKPSVKFRLQLDQTFQOIRCLVKGGLRSSLSD

Ekpoma-2 MFSTLNSKTLSCALPQDDSTYOYPADYFK-NQKKRIVRLEPKPLHTLDELRLIICKGLRASK

Bas-Congo PRTYFESNGFKKESLRLEKSNLSLKDRLREIICKSLKAST

Tibrogargan MHCIVTSTSIKLTAPSPSDTIDVOYCSDYFEKNNKQKPKINLEKLPVGLAELRALVKGGFKAND

70 80 90 100 110 120

Ekpoma-1 LKIQHAMHF LRHYLESIKNELKSDWVSHGVEIGVSGNEITPLTILIKVELAPAQLQDGVQAND

Ekpoma-2 LDTSHILMYMRLVLETIKEDVQREWESFNLKLRVGDQIGPLDLEIEDYDEKQRDGTKDQA

Bas-Congo IDPEYTLFLKQYVTRFKAQIAEDWISFDVKIGRAGETLSPINLFAIEEYDPKLRDMVKDTT

Tibrogargan LKQLHVLAYLGHLLQDIKGEELTE DWT SFGVLIGNRSHNITPLDLDVNY YDKLLDGVKAND

130 140 150 160 170 180

Ekpoma-1 ATEADDMMAMTILGIFRIGRTSNAQYRATLMARLNTQIKCLINQDAIPLVDVNLMGSFINN

Ekpoma-2 GDREDDHWIMLILGFIYRINKISHNQYRAMSISKLNQOANNINPEAIKLDNPMISMICSN

Bas-Congo AEDDDHMMAFVLLSIYRISKVLPAYRATLIGKMNQAQGINNALKVLDNVIFNVLSNSN

Tibrogargan ASQSDDAWMLFACLGIIYRLARTQNLQHRSSILMKMNAQILSLINQNAIKLVDNTMFWNSWISN

190 200 210 220 230 240

Ekpoma-1 PMYVKKVAVVDMYFNMFREDERSILRFGLTGSRYQDCSSIMSSHLTSLTGLPLETVLDWEIF

Ekpoma-2 PNFSKLVAAVDMFLYENKESDRSLWRGGSVACRYENCAALTTISHLTDILGKNLEDILPWF

Bas-Congo NSYVKKLVAGTDMILFRMGDGEHSLYRWGTVVTREHEDGSALLSIAHICKLLGKEIEFLEWEIF

Tibrogargan YNYTKLIACDMFPFYKFKDHEHAVCRFGTIPSRWKDCGGTSLSHLKNLTGMELEEIVSWVF

250 260 270 280 290 300 310

Ekpoma-1 VESIGREMLAMLKEGOELDNPNSTPYMMPGLGLSTKSPYSAS YAPGTYTLIHIIGSIMHSTR

Ekpoma-2 IETIGHEVERILEPGOELDNVRSTPYCHAYGISQKIPYSATAAPGLYTLCHLIGLLHSPR

Bas-Congo VNSVGRDVEKILEPGOELDKPYSYGYMKGGLGLVTRSIYASASACSNLTYTFC HMLCAVLSHR

Tibrogargan VPSIGKEICRMMSGOELDKPDSYVYMMMDLGLSMKSPYSSANGGTYTWHMIGSIMHSQR

320 330 340 350 360 370

Ekpoma-1 SYHARMVSDSNIANIKINALVMAYVLSNKGSLRKVFVKEEYKDIFGDDNK--RDQEDDDSVVD

Ekpoma-2 SQNARIVTERNMVNIRINATLIAFVLGSKGSLKQIFVKEETDKHKVINPKT--TGGADNESLD

Bas-Congo SKHARMINEGNLNIKLNNTSVIAWVLGSRGSLVQIFVKNRSRDEVLSKQTKNQKIEETDSL

Tibrogargan SLHARMVNEENELPNIRISAMLTAYVKFNKGSLMKVVFVKEEDKHL YIGED---QDENEGNSD

380 390 400 410 420 431

Ekpoma-1 SLDLDELFRSNDEI EWYNWLESNSFEIPEKLMGVMKRECRKISGTRPNIVGHVYSTMA

Ekpoma-2 SFDLDEIPNSSDPHEWYHYLYTRDFELPKEIVEVMKKEARKITNIRPNTIGHYISTTF

Bas-Congo SFDDEDEIPQTSDPHEWYDYLAARRDFDIPDVLMAVRNEAKKLVGTRIGTIGHYVQTTY

Tibrogargan YIDLTOHENTDSADDNYQWLEINNFETLDDILKDSITRECKKIQNTFRAGTIGSYIQTTLS

	Ekpoma-1	Ekpoma-2	Bas-Congo	Tibrogargan
Ekpoma-1		41.4%	40.3%	47.3%
Ekpoma-2	41.4%		45.5%	39.5%
Bas-Congo	40.3%	45.5%		39.8%
Tibrogargan	47.3%	39.5%	39.8%	