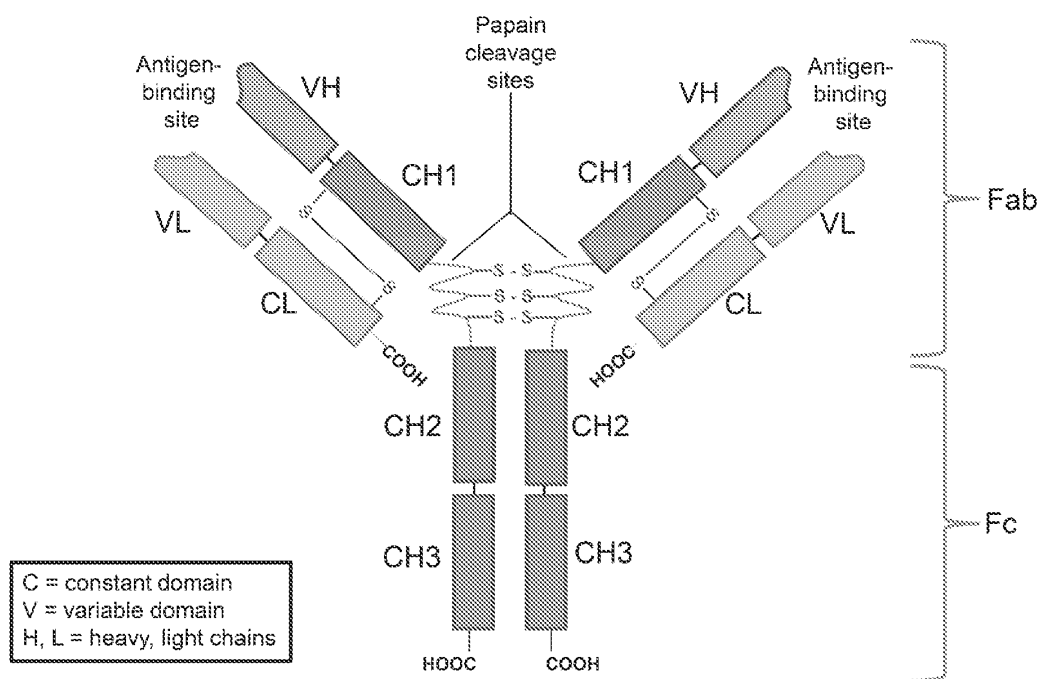


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# Antibody structure

**FIGURE 1**

SUBSTITUTE SHEET (RULE 26)

|                                 |                                                                                                                         |   |  |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------|---|--|
|                                 |                                                                                                                         | 1 |  |
| >Human IgG1_EU Index            |                                                                                                                         |   |  |
| 118                             | 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | { |  |
| A                               | S T K G P S V F P L A P S S K S T S G G T A A L G C L V K D                                                             | } |  |
| >Feline IgG1a_EU Index          |                                                                                                                         |   |  |
| 118                             | 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | { |  |
| A                               | S T T A P S V F P L A P S C G T T S G A T V A L A C L V L G                                                             | } |  |
| >Feline IgG1b_EU Index          |                                                                                                                         |   |  |
| 118                             | 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | { |  |
| A                               | S T T A P S V F P L A P S C G T T S G A T V A L A C L V L G                                                             | } |  |
| >Feline IgG2_EU Index           |                                                                                                                         |   |  |
| 118                             | 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | { |  |
| A                               | S T T A P S V F P L A P S C G T T S G A T V A L A C L V L G                                                             | } |  |
| >Feline IgG2_Hinge mut_EU Index |                                                                                                                         |   |  |
| 118                             | 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | { |  |
| A                               | S T T A P S V F P L A P S C G T T S G A T V A L A C L V L G                                                             | } |  |

FIGURE 2A

|                                                                                                                             |  |
|-----------------------------------------------------------------------------------------------------------------------------|--|
| 2                                                                                                                           |  |
| >Human IgG1_EU Index                                                                                                        |  |
| 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 |  |
| Y F P E P V T V S W N S G A L T S G V H T F P A V L Q S S G L                                                               |  |
| >Feline IgG1a_EU Index                                                                                                      |  |
| 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 |  |
| Y F P E P V T V S W N S G A L T S G V H T F P A V L Q A S G L                                                               |  |
| >Feline IgG1b_EU Index                                                                                                      |  |
| 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 |  |
| Y F P E P V T V S W N S G A L T S G V H T F P A V L Q A S G L                                                               |  |
| >Feline IgG2_EU Index                                                                                                       |  |
| 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 |  |
| Y F P E P V T V S W N S G A L T S G V H T F P S V L Q A S G L                                                               |  |
| >Feline IgG2_Hinge mut_EU Index                                                                                             |  |
| 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 |  |
| Y F P E P V T V S W N S G A L T S G V H T F P S V L Q A S G L                                                               |  |

FIGURE 2A (Contd.)

|                                                                                                                             |   |  |
|-----------------------------------------------------------------------------------------------------------------------------|---|--|
| 3                                                                                                                           |   |  |
| >Human IgG1_EU Index                                                                                                        |   |  |
| 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 | { |  |
| Y S L S S V V T V P S S S L G T Q T Y I C N V N H K P S N T K                                                               | } |  |
| >Feline IgG1a_EU Index                                                                                                      |   |  |
| 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 | { |  |
| Y S L S S M V T V P S S R W L S D T F T C N V A H P P S N T K                                                               | } |  |
| >Feline IgG1b_EU Index                                                                                                      |   |  |
| 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 | { |  |
| Y S L S S M V T V P S S R W L S D T F T C N V A H P P S N T K                                                               | } |  |
| >Feline IgG2_EU Index                                                                                                       |   |  |
| 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 | { |  |
| Y S L S S M V T V P S S R W L S D T F T C N V A H R P S S T K                                                               | } |  |
| >Feline IgG2_Hinge mut_EU Index                                                                                             |   |  |
| 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 | { |  |
| Y S L S S M V T V P S S R W L S D T F T C N V A H R P S S T K                                                               | } |  |

FIGURE 2A (Contd.)

|                               |                                                                                                                         |                                                                         |  |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|
|                               |                                                                                                                         | 4                                                                       |  |
| >HumanIgG1_EUIndex            |                                                                                                                         |                                                                         |  |
| 211                           | 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 |                                                                         |  |
| V                             | D K K V E P K S C D K T H T C P C P A P E L L G G P S V F                                                               |                                                                         |  |
| >FelineIgG1a_EUIndex          |                                                                                                                         |                                                                         |  |
| 211                           | 212 213 214 215 216                                                                                                     | 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 |  |
| V                             | D K T V R K T D H P P G P K P C D - - C P K C P P P E M                                                                 |                                                                         |  |
| >FelineIgG1b_EUIndex          |                                                                                                                         |                                                                         |  |
| 211                           | 212 213 214 215 216                                                                                                     | 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 |  |
| V                             | D K T V R K T D H P P G P K P C D - - C P K C P P P E M                                                                 |                                                                         |  |
| >FelineIgG2_EUIndex           |                                                                                                                         |                                                                         |  |
| 211                           | 212 213 214 215 216 217 218 219 220                                                                                     | 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237     |  |
| V                             | D K T V - P K T A S T I E S K T G E G P K C P V P E I P G A                                                             |                                                                         |  |
| >FelineIgG2_Hinge mut_EUIndex |                                                                                                                         |                                                                         |  |
| 211                           | 212 213 214 215 216 217 218 219 220                                                                                     | 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237     |  |
| V                             | D K T V - P K T A S T I E S K T G C G C K C P V P E I P G A                                                             |                                                                         |  |

FIGURE 2A (Contd.)

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|                                 |                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 5                               |                                                                                                                               |
| >Human IgG1_EU Index            |                                                                                                                               |
| {                               | 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 { |
|                                 | L F P P K P K D T L M I S R T P E V T C V V V D V S H E D P E                                                                 |
| >Feline IgG1a_EU Index          |                                                                                                                               |
| {                               | 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 { |
|                                 | L G G P S I F I F P P K P K D T L S I S R T P E V T C L V V D                                                                 |
| >Feline IgG1b_EU Index          |                                                                                                                               |
| {                               | 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 { |
|                                 | L G G P S I F I F P P K P K D T L S I S R T P E V T C L V V D                                                                 |
| >Feline IgG2_EU Index           |                                                                                                                               |
| {                               | 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 { |
|                                 | P S V F I F P P K P K D T L S I S R T P E V T C L V V D L G P                                                                 |
| >Feline IgG2_Hinge mut_EU Index |                                                                                                                               |
| {                               | 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 { |
|                                 | P S V F I F P P K P K D T L S I S R T P E V T C L V V D L G P                                                                 |

FIGURE 2A (Contd.)

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|                                 |                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 6                               |                                                                                                                             |
| >Human IgG1_EU Index            |                                                                                                                             |
| {                               | 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 |
| {                               | V K F N W Y V D G V E V H N A K T K P R E E Q Y N S T Y R V V                                                               |
| >Feline IgG1a_EU Index          |                                                                                                                             |
| {                               | 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 |
| {                               | L G P D D S D V Q I T W F V D N T Q V Y T A K T S P R E E Q F                                                               |
| >Feline IgG1b_EU Index          |                                                                                                                             |
| {                               | 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 |
| {                               | L G P D D S D V Q I T W F V D N T Q V Y T A K T S P R E E Q F                                                               |
| >Feline IgG2_EU Index           |                                                                                                                             |
| {                               | 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 |
| {                               | D D S N V Q I T W F V D N T E M H T A K T R P R E E Q F N S T                                                               |
| >Feline IgG2_Hinge mut_EU Index |                                                                                                                             |
| {                               | 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 |
| {                               | D D S N V Q I T W F V D N T E M H T A K T R P R E E Q F N S T                                                               |

FIGURE 2A (Contd.)

7

|                                                                                                                             |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| >HumanIgG1_EU Index                                                                                                         |                                                                 |
| 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 | { S V L T V L H Q D W L N G K E Y K C K V S N K A L P A P I E K |
| >FelineIgG1a_EU Index                                                                                                       |                                                                 |
| 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 | { N S T Y R V V S V L P I L H Q D W L K G K E F K C K V N S K S |
| >FelineIgG1b_EU Index                                                                                                       |                                                                 |
| 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 | { N S T Y R V V S V L P I L H Q D W L K G K E F K C K V N S K S |
| >FelineIgG2_EU Index                                                                                                        |                                                                 |
| 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 | { Y R V V S V L P I L H Q D W L K G K E F K C K V N S K L P S   |
| >FelineIgG2_Hinge mut_EU Index                                                                                              |                                                                 |
| 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 | { Y R V V S V L P I L H Q D W L K G K E F K C K V N S K S L P S |

FIGURE 2A (Contd.)

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|                                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| >Human IgG1_EU Index            |     | 8   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 335                             | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 |
| T                               | I   | S   | K   | A   | K   | G   | Q   | P   | R   | E   | P   | Q   | V   | Y   | T   | L   | P   | P   | S   | R   | D   | E   | L   | T   | K   | N   | Q   | V   | S   | L   |
| >Feline IgG1a_EU Index          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 328                             | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 |
| L                               | P   | S   | P   | I   | E   | R   | T   | I   | S   | K   | A   | K   | G   | Q   | P   | H   | E   | P   | Q   | V   | Y   | V   | L   | P   | P   | A   | Q   | E   | E   | L   |
| >Feline IgG1b_EU Index          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 328                             | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 |
| L                               | P   | S   | P   | I   | E   | R   | T   | I   | S   | K   | D   | K   | G   | Q   | P   | H   | E   | P   | Q   | V   | Y   | V   | L   | P   | P   | A   | Q   | E   | E   | L   |
| >Feline IgG2_EU Index           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 331                             | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 |
| A                               | M   | E   | R   | T   | I   | S   | K   | A   | K   | G   | Q   | P   | H   | E   | P   | Q   | V   | Y   | V   | L   | P   | P   | T   | Q   | E   | E   | L   | S   | E   | N   |
| >Feline IgG2_Hinge mut_EU Index |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 331                             | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 |
| A                               | M   | E   | R   | T   | I   | S   | K   | A   | K   | G   | Q   | P   | H   | E   | P   | Q   | V   | Y   | V   | L   | P   | P   | T   | Q   | E   | E   | L   | S   | E   | N   |

FIGURE 2A (Contd.)

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|                                                                                                                             |                 |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------|
| >Human IgG1_EU Index                                                                                                        |                 |
| 9                                                                                                                           |                 |
| 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 |                 |
| T C L V K G F Y P S D I A V E W E S N G Q P E N N Y K T T P P                                                               |                 |
| >Feline IgG1a_EU Index                                                                                                      |                 |
| 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386             | 387             |
| S R N K V S V T C L I K S F H P P D I A V E W E I T G Q P E P                                                               |                 |
| >Feline IgG1b_EU Index                                                                                                      |                 |
| 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386             | 387             |
| S R N K V S V T C L I E G F Y P S D I A V E W E I T G Q P E P                                                               |                 |
| >Feline IgG2_EU Index                                                                                                       |                 |
| 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386                         | 387 388 389 390 |
| K V S V T C L I K G F H P P D I A V E W E I T G Q P E P E N N                                                               |                 |
| >Feline IgG2_Hinge mut_EU Index                                                                                             |                 |
| 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386                         | 387 388 389 390 |
| K V S V T C L I K G F H P P D I A V E W E I T G Q P E P E N N                                                               |                 |

FIGURE 2A (Contd.)

|                                                                                                                             |   |    |
|-----------------------------------------------------------------------------------------------------------------------------|---|----|
|                                                                                                                             |   | 10 |
| >Human IgG1_EU Index                                                                                                        |   |    |
| 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 | { |    |
| V L D S D G S F F L Y S K L T V D K S R W Q Q G N V F S C S V                                                               | } |    |
| >Feline IgG1a_EU Index                                                                                                      |   |    |
| 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 | { |    |
| E N N Y R T T P P Q L D S D G T Y F V Y S K L S V D R S H W Q                                                               | } |    |
| >Feline IgG1b_EU Index                                                                                                      |   |    |
| 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 | { |    |
| E N N Y R T T P P Q L D S D G T Y F L Y S R L S V D R S R W Q                                                               | } |    |
| >Feline IgG2_EU Index                                                                                                       |   |    |
| 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 | { |    |
| Y Q T T P P Q L D S D G T Y F L Y S R L S V D R S H W Q R G N                                                               | } |    |
| >Feline IgG2_Hinge mut_EU Index                                                                                             |   |    |
| 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 | { |    |
| Y Q T T P P Q L D S D G T Y F L Y S R L S V D R S H W Q R G N                                                               | } |    |

FIGURE 2A (Contd.)

|                                                             |                                                                                                                     |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| >Human IgG1_EU Index                                        |                                                                                                                     |
| M H E A L H N H Y T Q K S L S L S P G K                     | 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447                                     |
| >Feline IgG1a_EU Index                                      |                                                                                                                     |
| R G N T Y T C S V S H E A L H S H H T Q K S L T T Q S P G K | 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 |
| >Feline IgG1b_EU Index                                      |                                                                                                                     |
| R G N T Y T C S V S H E A L H S H H T Q K S L T T Q S P G K | 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 |
| >Feline IgG2_EU Index                                       |                                                                                                                     |
| T Y T C S V S H E A L H S H H T Q K S L T T Q S P G K       | 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447             |
| >Feline IgG2_Hinge mut_EU Index                             |                                                                                                                     |
| T Y T C S V S H E A L H S H H T Q K S L T T Q S P G K       | 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447             |

FIGURE 2A (Contd.)

| Feline Fc IgG1a WT nucleotide sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCCCCTGAGATGCTTGGAGGACCGTCCATCTTCATCTTCCCCCAA<br>AACCCAAGGACACCCCTCTCGATTTCCCGGACGCCCGAGGTCACAT<br>GCTTGGTGGTGGACTTGGGCCAGATGACTCCGATGTCAGATCA<br>CATGGTTTGTGGATAACACCCAGGTGTACACAGCCAAAGACGAGTC<br>CGCGTAGGAGCAGTTCAACAGCACCTACCGTGTGGTCAAGTGTC<br>TCCCCATCCTACACAGGACTGGCTCAAGGGAAGGAGTTCAAGT<br>GCAAGGTCAACAGCAATCCCTCCCTCCCTCCCATCGAGAGGACCA<br>TCTCCAAGGCCAAAGGACAGCCCCACGAGCCCCAGGTGTACGTCC<br>TGCCTCCAGCCCAGGAGGAGCTCAGCAGGAACAAGTCAGTGTGA<br>CCTGCCTGATCAATCCTTCCACCCGCTGACATTGCCGTCGAGTG<br>GGAGATCACCGGACAGCCGGAGCCAGAGAACAACTACCGGACGA<br>CCCCGCCCCAGCTGGACAGCGACGGGACCTACTTCGTGTACAGCA<br>AGCTCTCGGTGGACAGGTCCCACTGGCAGAGGGGAACACCTACA<br>CCTGCTCGGTGTACACGAAGCTCTGCACAGCCACCACACACAGA<br>AATCCCTCACCCAGTCTCCGGGTAAA |

FIGURE 2B

| Feline Fc IgG1a S434H nucleotide sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCCCCTGAGATGCTTGGAGGACCGTCCATCTTCATCTTCCCCCAA<br>AACCCAAGGACACCCCTCTCGATTTCCGGACGCCGAGGTCACAT<br>GCTTGGTGGTGGACTTGGGCCAGATGACTCCGATGTCAGATCA<br>CATGTTTGTGGATAACACCCAGGTGTACACAGCCAAGACGAGTC<br>CGGTGAGGAGCAGTTCAACAGCACCTACCGTGTGGTCAGTGTC<br>TCCCCATCTACACAGGACTGGCTCAAGGGAAGGAGTTCAAGT<br>GCAAGGTCAACAGCAATCCCTCCCTCCCTCCCATCGAGAGGACCA<br>TCTCAAGGCCAAAGGACAGCCACGAGGCCCAAGGTGACGTCC<br>TGCCTCCAGCCCAGGAGGAGCTCAGCAGGAACAAGTCAGTGTGA<br>CCTGCCTGATCAATCCTTCCACCCGCTGACATTGCCGTCGAGTG<br>GGAGATCACCGGACAGCCGGAGCCAGAGAACAACCTACCGGACGA<br>CCCCGCCCCAGCTGGACAGCGACGGGACCTACTTCGTGTACAGCA<br>AGCTCTCGGTGGACAGGTCCCACTGGCAGAGGGAAACACCTACA<br>CCTGCTCGGTGTACACGGAAGCTCTGCACCCACCACACACACAGA<br>AATCCCTCACCCAGTCTCCGGGTAAA |

FIGURE 2C

| Feline Fc IgG1a S428L nucleotide sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCCCCTGAGATGCTTGGAGGACCGTCCATCTTCATCTTCCCCCAA<br>AACCCAAGGACACCCCTCTCGATTTCCCGACGCCGAGGTCACAT<br>GCTTGGTGGTGGACTTGGGCCCAGATGACTCCGATGCCAGATCA<br>CATGTTTGTGGATAACACCCAGGTGTACACAGCCAAGACGAGTC<br>CGGTGAGGAGCAGTTCAACAGCACCTACCGTGTGGTCAAGTGTC<br>TCCCCATCCTACACAGGACTGGCTCAAGGGAAGGAGTTCAAGT<br>GCAAGGTCAACAGCAATCCCTCCCTCCCTCCCATCGAGAGGACCA<br>TCTCAAGGCCAAAGGACAGCCCCACGAGCCCCAGGTGTACGTCC<br>TGCCTCCAGCCCAGGAGGAGCTCAGCAGGAACAAGTCAGTGTGA<br>CCTGCCTGATCAATCCTTCCACCCGCTGACATTGCCGTCGAGTG<br>GGAGATCACCGGACAGCCGGAGCCAGAGAACAACTACCGGACGA<br>CCCCGCCCCAGCTGGACAGCGACGGGACCTACTTCGTGTACAGCA<br>AGCTCTCGGTGGACAGGTCCCACTGGCAGAGGGAAACACCTACA<br>CCTGCTCGGTGCTGCACGAAGCTCTGCACAGCCACCCACACACAGA<br>AATCCCTCACCCAGTCTCCGGGTAAA |

FIGURE 2D

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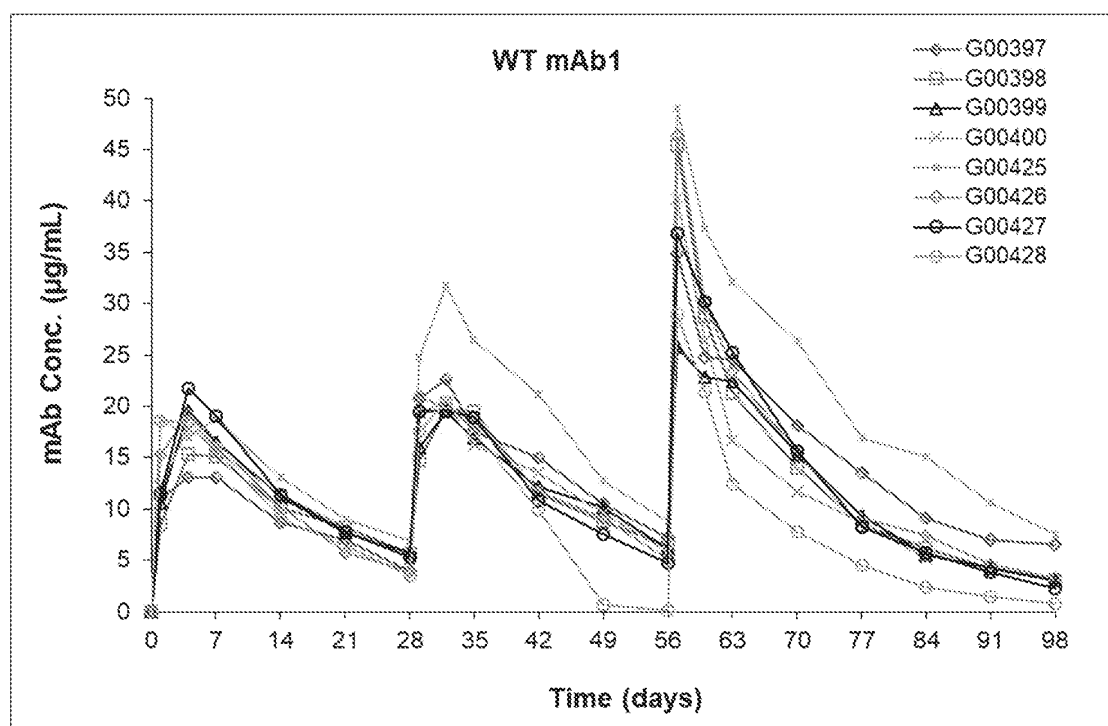


FIGURE 3

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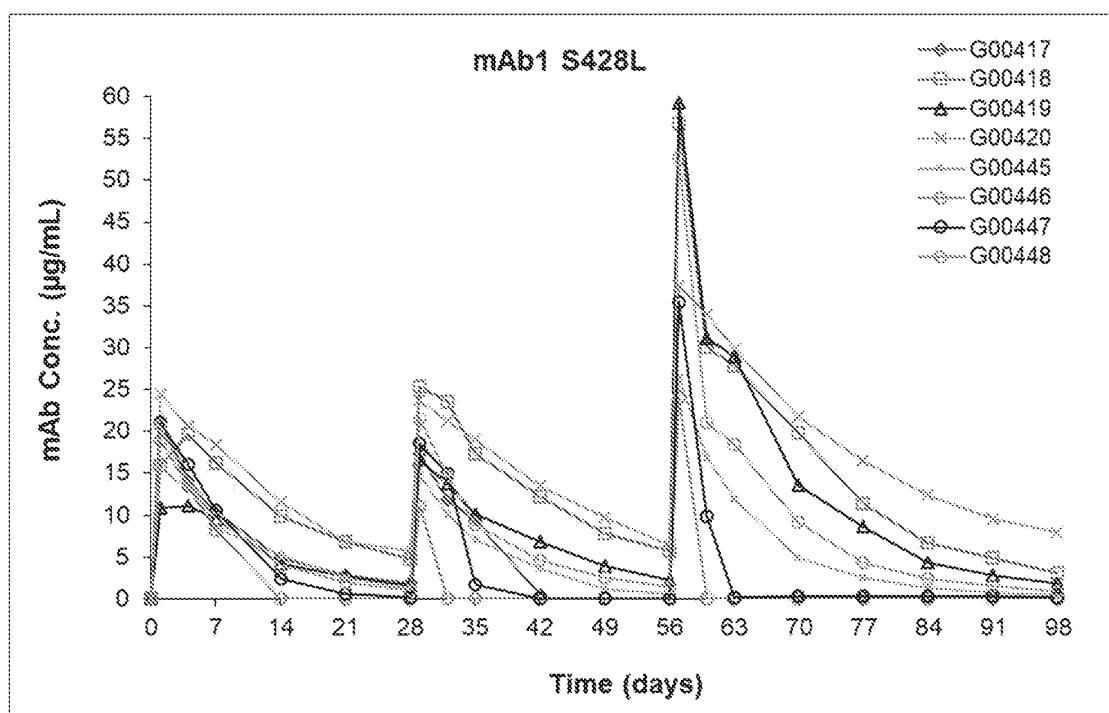


FIGURE 4

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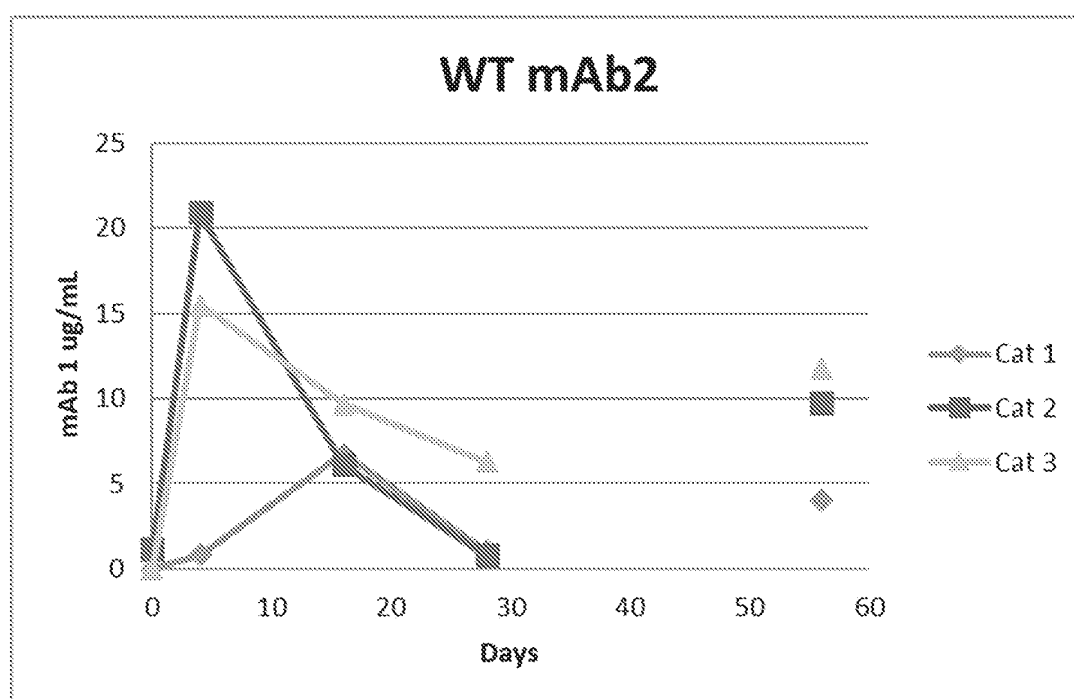


FIGURE 5

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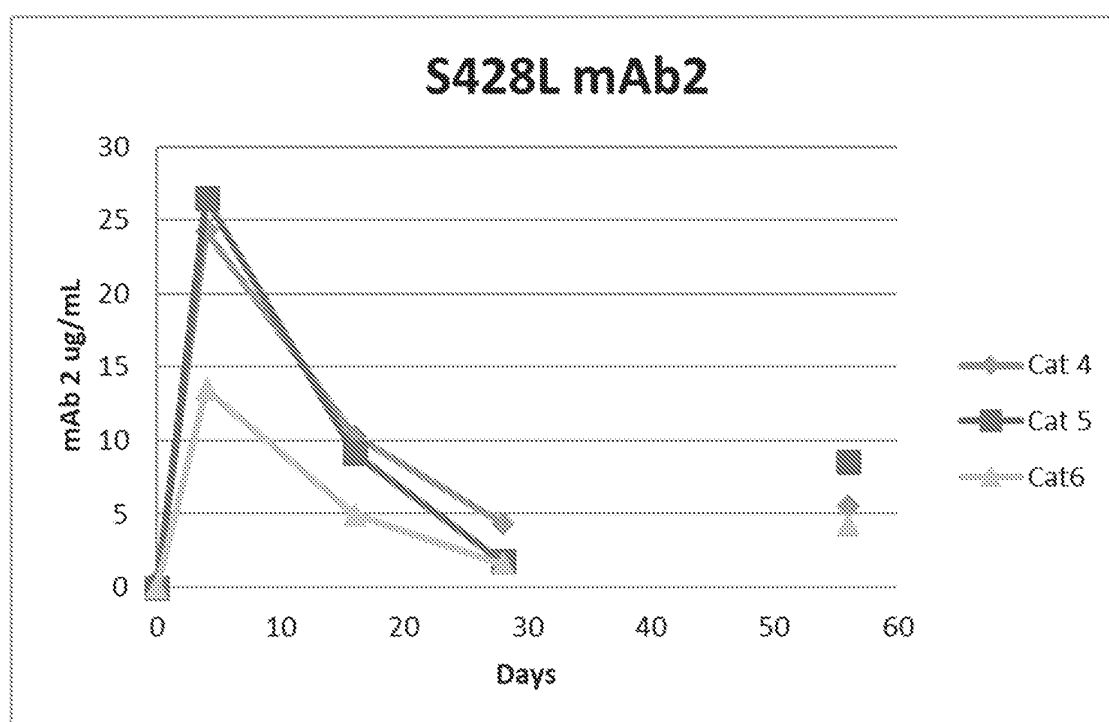


FIGURE 6

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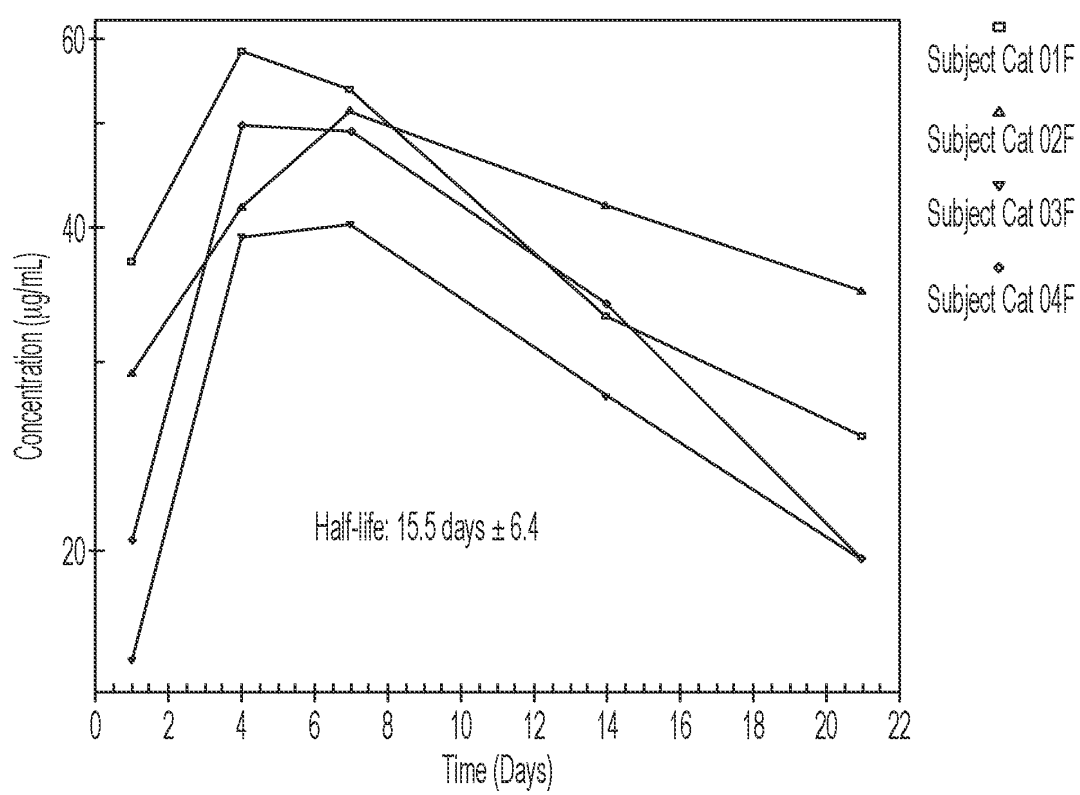


FIGURE 7

SUBSTITUTE SHEET (RULE 26)

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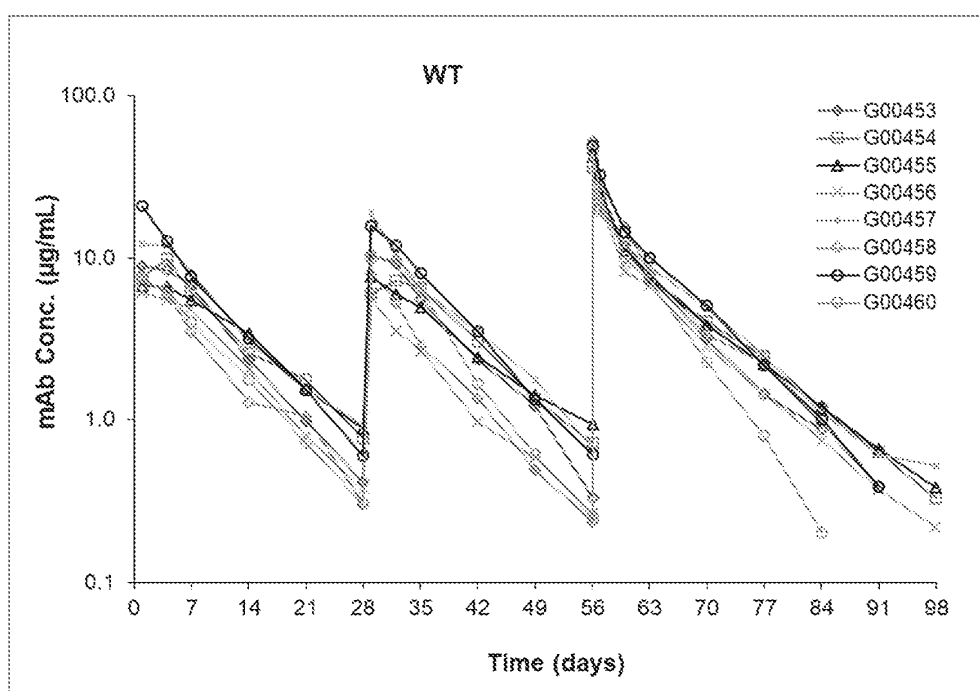


FIGURE 8

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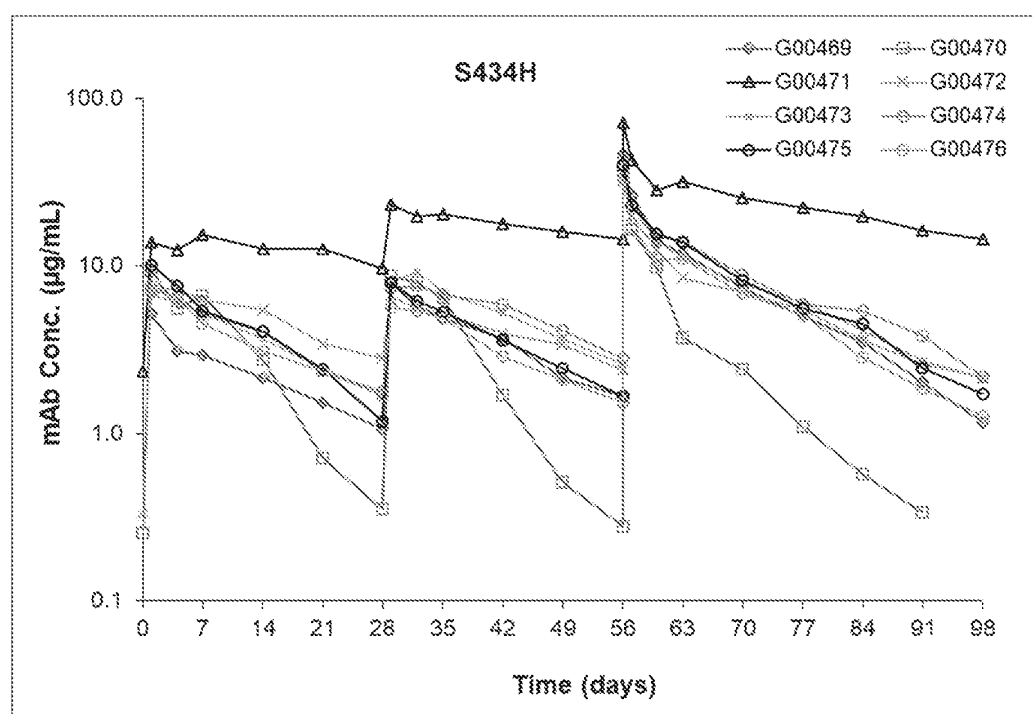


FIGURE 9

SUBSTITUTE SHEET (RULE 26)