Commands:

To update form:

cd .. (repeat to root)

cd /Users/PCW-MacBookProRet/Applications/VGenes

cd /Users/PCW-MacBookProRet/Applications/Librator

pyuic5 VGenesMain.ui > ui\_VGenesMain.py

then got to ui\_VGenesMain.py and deactivate line: MainWindow.setUnifiedTitleAndToolBarOnMac(**False**)

VGenesDB:

1. SeqName
2. SeqLen
3. GeneType
4. V1
5. V2
6. V3
7. D1
8. D2
9. D3
10. J1
11. J2
12. J3
13. StopCodon
14. ReadingFrame
15. productive
16. Strand
17. VSeqend
18. VDJunction
19. Dregion
20. DJJunction
21. begJ
22. VJunction
23. FR1From
24. FR1To
25. FR1length
26. FR1matches
27. FR1mis
28. FR1gaps
29. FR1PercentIdentity
30. CDR1From
31. CDR1To
32. CDR1length
33. CDR1matches
34. CDR1mis
35. CDR1gaps
36. CDR1PercentIdentity
37. FR2From
38. FR2To
39. FR2length
40. FR2matches
41. FR2mis
42. FR2gaps
43. FR2PercentIdentity
44. CDR2From
45. CDR2To
46. CDR2length
47. CDR2matches
48. CDR2mis
49. CDR2gaps
50. CDR2PercentIdentity
51. FR3From
52. FR3To
53. FR3length
54. FR3matches
55. FR3mis
56. FR3gaps
57. FR3PercentIdentity
58. TotMut
59. SeqAlignment
60. GVbeg
61. GVend
62. GD1beg
63. GD1end
64. GD2beg
65. GD2end
66. GJbeg
67. GJend
68. Vbeg
69. Vend
70. D1beg
71. D1end
72. D2beg
73. D2end
74. Jbeg
75. Jend
76. Project
77. Grouping
78. SubGroup
79. Species
80. Sequence
81. GermlineSequence
82. CDR3DNA
83. CDR3AA
84. CDR3Length
85. CDR3beg
86. CDR3end
87. Specificity
88. Subspecificity
89. ClonalPool
90. ClonalRank
91. VLocus
92. JLocus
93. DLocus
94. DateEntered
95. Comments
96. Quality
97. TotalMuts
98. Mutations
99. IDEvent
100. CDR3MW
101. CDR3pI
102. Isotype
103. GCDR3beg
104. GCDR3end
105. Blank6 …Autoreactivty
106. Blank7 CLonalPool shared between projects
107. Blank8 Cluster from CellRanger
108. Blank9 Cluster from Seuret
109. Blank10 Barcode from 10x
110. Blank11 Population
111. Blank12 Label
112. Blank13 Status
113. Blank14
114. Blank15
115. Blank16
116. Blank17
117. Blank18
118. Blank19
119. Blank20
120. ID

GermlineDB:

1. IMGT\_ID
2. SeqName
3. Allele
4. Species
5. Strain
6. Functionality
7. GeneType
8. IMGTDBnumber
9. Length
10. CodingStartNucleotide
11. PlusN3IMGT
12. PlusN5IMGT
13. IMGTCorrections
14. NumberAAifAA
15. SeqNucsandIMGTgapsTotal
16. PartialSeq
17. RevComp
18. IMGTSequence
19. Sequence
20. ID