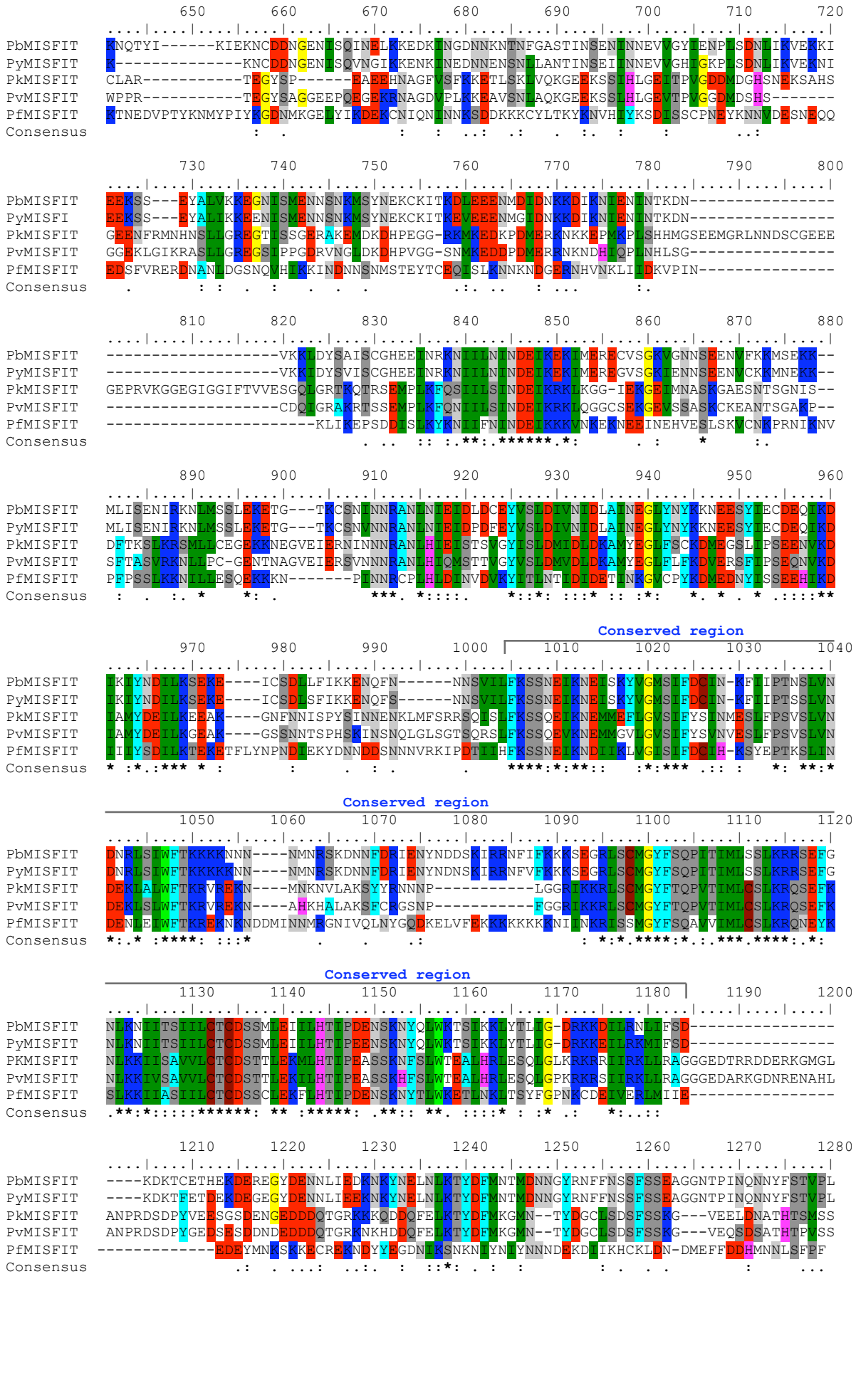
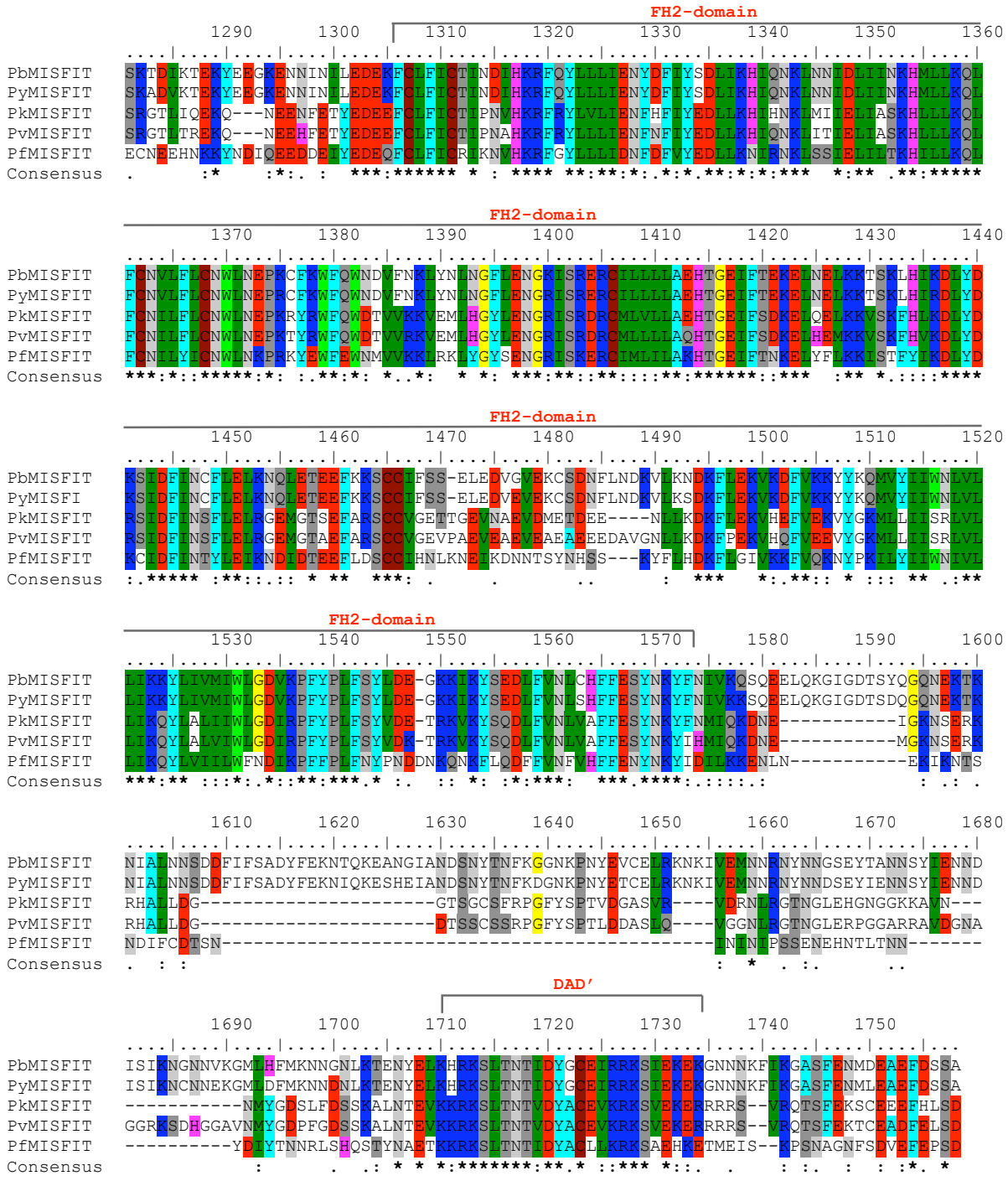
```
                    10        20        30        40        50        60        70        80
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  -----------EKLKKLTGKLLYLLNKYRHAYLMSIDLINFYDEVIEKKD-DSNYKELEEFYKKKRPWEG-IIDEEMIIR
PyMISFIT  MAVLITIEKENEKLKKLSEKLLYLLNKYRHAYLMSIDLINFYDEVIEKKN-DSNYKELEECYKKKRPWEG-IIDEEMIIR
PkMISFIT  ---------ENVKLKRINEKLLSLLNRYRCAYLISLDLVNFYEEVIRRRCKENGGKDLLEGLKRRKQLND-TWEEEMVMR
PvMISFIT  -----MLDQENVKLKRINEKLLSMLNKYRCAYLMSLDIVAFYEEVIRRRCREGGGKDLLEGQKRRKQLND-TWEEEVVLR
PfMISFIT  MAPDTLLNKYISKFQKINDKLLGLVNKYRYAYFKALEVINHYEELVKRNGELFDDKELIEIYKKRRQCEECILEEEKEIR
Consensus                *:::::. *** ::*:** **: ::::: .*:*::.:.    . *:* *  *:::  :    :**  :*

                    90       100       110       120       130       140       150       160
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  KKLKNNLCYYEGKEHTKKIKTIETNDSEMLHSKGNDGNDSSNCS------------------------------ISGIKI
PyMISFIT  KKLKNNLCYYEGKEHTKKIKIIETGDSEILHSKG---NDSSNCS------------------------------ISGIKI
PkMISFIT  KKLKMKLPMNEGSIEVTQCGGIGQG-VDSAGRVSPPLVGKENCSEERYSSGD--------------------IPVDTTNI
PvMISFIT  KKLKMKLPGKEASFEVTLCGGVGEG-VDSARGVCPPLAGGEDCSDERDSSGDTPAEAAVETAVDTPTETPVNTPVDTLNA
PfMISFIT  KKLDREKDNNIMSTNYTKDYNINIERDNLKEENVHVVMND-----------------------------------ESVEQ
Consensus ***. :      . . .    :    :          .                                      .  :

                   170       180       190       200       210       220       230       240
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  FKGDDSKLQDNNMENEDEK---------YNKNTSDYVSLGALDFSAYKEDSDGHIKYYEKNKTDIKVDKTKKNNN-----
PyMISFIT  FKGDDSKLQDNNMESEDGK---------DNKNTSDYVSLGALDFSAYKEDADGHIKYCEKNKTDIKVDKTKKNNN-----
PkMISFIT  VPTSVPKAPETIHHQGNQSSHAKSSAIIHESNKSNYVNLGALDFSAYKEDSEGCVKYFEKKKTQLSNDKGNTESC-----
PvMISFIT  VPTSATNAPHAAHQPGQGS----SNAILHERNKSNYVNLGALDFSAYREDSEGYVKYFEKKKTQLSNDKVSTEAEPN---
PfMISFIT  IKDNNPMIDHNTSCIVDIN----------EKNKSNYVDLGTLDFSAYKEDSQGCIQYYENKEDVQEQKQGKSQEVESKRH
Consensus .  . .   .      : .          : *.*:**.**:******:**::* ::* *:::   . .: ..:

                   250       260       270       280       290       300       310       320
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  ---NFSKYMHQSDVKKKNVLNQSIY-MKNNN------------VKSSQIRIIPHIHKNIYNADNSFSKLNSAKKLNALNT
PyMISFIT  ---NFSKYMQQSDVKKKNVLNQSIY-MKNNN------------VKSSQIRIIPHMHKSIYNPDNSFSKLNSSKKMNVLNS
PkMISFIT  -YDNSGRQLHQSEFRRPPLFNQSVYGSKQSV------------IKGALNREIPFSHKSIYMDK--HSKLQGAKKEDILTN
PvMISFIT  -YNNAGRQLHQSEFRKPPLFNQSVYGSKQSV------------IKASPSRVIPYSHKSIYMDR--HPKFQGAKKEDALTN
PfMISFIT  MRVNSSRYESQYGIKNRNILKQSIYVKQNNNSNNMKSVSGSRYVPNKSVINIDKSFKVTHNRNYENLSKKSIYNNNNINN
Consensus    * .:   *  .:.: :::**:*  ::.           :      :   .*  :      . :.  : : :..

                   330       340       350       360       370       380       390       400
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  YKSVYIN-----------SNIMHKN-IGMDKKIVKNELNKNEFLQNNN--LKGLNKSVYIGRRE-KSTCATSNSIIVPNR
PyMISFIT  YKSVYIN-----------SNIMHKN-IGMDKKIVKNELNKNEFLQNNN--LKGLNKSVYIGRRE-KSMCATSNSIIVPNR
PkMISFIT  -RSVYVTSGRGIGSGIGMNNLLSKN-MGLARKVVKNELHKGGSIAPSHRPTTNLNKSVYVETKG-AHNRDSHLSEGVG-C
PvMISFIT  -RSVYVS---GSGSGTGMSNLLSKH-VGLPRKVVKNEPHKGSFIAPSHRPTTHLNKSVYVDTKG-AHNRGSNLSEGLG-G
PfMISFIT  NNNINNNNNNNNNSNNNNLVNKIGVGGINKKGGEKKMDVHKSTYIGSNNKLLNNMNRSIYIGAKKNINSNNININKNSNIH
Consensus  ..:  .           * :    :.      * : :*.  :  .:  :. :*:*:*:  :          .

                   410       420       430       440       450       460       470       480
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  NNRMSGPINESLILTSKNSLINKDGTKKQELLNKKMSVIKANNTHNNNIPLKKMNTLSILKNNNYISNKNGLNKSIYFSR
PyMISFIT  NNRMSGPINESLIHTNKNFLINKDGTKKQELLNKKMSVIKANNTHNNNIPLKKMNTLSTLKNNNYISNKNGLNKSIYFSR
PkMISFIT  SNKASLLTRDNLKKGESAVNKKVGMLNRPSGFQNSVYVKRMNSTIGGSSGMVGGGPISFSPPD---ARKGGPNKSVYMR-
PvMISFIT  TNKAILLSRDNLKK--------VSTVSRPSGLQNSVYVKRMNSTIG--SGGGGGGPISFSPPH---ASKGAPNKSVYMR-
PfMISFIT  NNIHNFKNPYDNNTSLLSTHMNTVVINKEKDMNDTGNNKNVTNAYTQNSLYIKKGKSFNVSNNSLYINKNICQSSVYNK-
Consensus .*  .     .            :.: . ::..    . ..:         .       .     *.  :.*:*

                   490       500       510       520       530       540       550       560
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  SNTLMSNDKKKKTNDSYVDQAKVGTVGDSNLNRKAEHINNLNFWGKNEVLDVEISKEIGIAIKDVETENTEQNSKKIFID
PyMISFIT  SNTLMSNDKKKTSNDTYIDQAKFGTVGDSNLNRKTEHINNLNFLGKNEVRNVEISKEIEITIKDVETENIEQNIKKTFID
PkMISFIT  SNTFAISNKKRKTSEGGENFKCSSANDTVKAEGKVTHLYDGVAVQREKMSTVGICIEEENNLDENIKENK----------
PvMISFIT  SNTLAIGNKKRKTSEGEESFKCLSANEKVKAEGKVTHLHDGMAAEGEKTSSGDGCIEEENTLDGTLEEEK----------
PfMISFIT  SNTIIYNAKKRKTNEKEKEEDKDGYKNNEIVCTNKNKESNEDNNSDERNKNKHLTNNIINKENNKIYIKN----------
Consensus ***:  . **:.:.:   .    .         :  :  :      :.       :     .     :

                   570       580       590       600       610       620       630       640
          ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
PbMISFIT  EKLGIEKSDKINFPNVQKLSYSPLTLEDIEKLIKDEEKDKEISVNNNLNQSIIKENDFACMKKNICIDKDNLKNIVCLPE
PyMISFIT  EKLGIEKSDKINFPNVQKLSYSPLTLEDIEKLIEDEEKDTGISVNNNLNPSLTKENDGICMKKNICIDKDDLKNIVCLPE
PkMISFIT  ------RKESLDMVYFHHSYEPLTLENVEFLMGNEIIDGEHARGGNSLGDNQEGDVGRDDRVHISSVENGKRGEYYMKE
PvMISFIT  ------RKESPNMVAYFHISYEPLTLKNVELLMGSEIIDGEHSIGGSSLGDDT------------SSVENAKRGKDYTRG
PfMISFIT  -----DISKNISYIYDNLNTYIPITLEHIKNLIEWDDADYEDIKKYTFGNIIHLKDTNYNILEGIDLECDKTKCMEKICE
Consensus         ... .       :* *:**:.:: *:  :  *       .                 :  :        &
```


PbMISFIT
PyMISFIT
PkMISFIT
PvMISFIT
PfMISFIT
Consensus
Conserved region
Conserved region
Conserved region


FH2-domain
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PbMISFIT
PyMISFIT
PkMISFIT
PvMISFIT
PfMISFIT
Consensus
FH2-domain
1370 1380 1390 1400 1410 1420 1430 1440
PbMISFIT
PyMISFIT
PkMISFIT
PvMISFIT
PfMISFIT
Consensus
FH2-domain
1450 1460 1470 1480 1490 1500 1510 1520
PbMISFIT
PyMISFI
PkMISFIT
PvMISFIT
PfMISFIT
Consensus
FH2-domain
1530 1540 1550 1560 1570 1580 1590 1600
PbMISFIT
PyMISFIT
PkMISFIT
PvMISFIT
PfMISFIT
Consensus
1610 1620 1630 1640 1650 1660 1670 1680
PbMISFIT
PyMISFIT
PkMISFIT
PvMISFIT
PfMISFIT
Consensus
DAD'
1690 1700 1710 1720 1730 1740 1750
PbMISFIT
PyMISFIT
PkMISFIT
PvMISFIT
PfMISFIT
Consensus