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| 表 1 苦荞81个PP2C家族基因的序列特征信息 |
| Table 1 The characteristics of 81 PP2C proteins identified from Tartary buckwheat |
| 基因 基因登录号 染色体 分组 氨基 分子量 等电点 同源性最高基因  定位 酸数 （拟南芥）  Gene Gene accession No. Chr Group AA MW(kDa) pI Homologous(At) |
| FtPP2C01 FtPinG0000150200.01 Ft1 B 445 48910.81 8.16 AT1G67820  FtPP2C02 FtPinG0001415600.01 Ft1 F 282 31081.74 9.19 AT4G28400  FtPP2C03 FtPinG0003201800.01 Ft1 D 339 37938.43 9.13 AT3G12620  FtPP2C04 FtPinG0003198400.01 Ft1 H 427 46472.65 5.39 AT1G47380  FtPP2C05 FtPinG0005606800.01 Ft1 K 517 55800.56 8.46 AT4G16580  FtPP2C06 FtPinG0001581400.01 Ft1 F 125 13975.72 4.97 AT5G53140  FtPP2C07 FtPinG0001581600.01 Ft1 F 211 23176.44 4.52 AT5G53140  FtPP2C08 FtPinG0006182000.01 Ft1 A 333 37177.41 5.42 AT1G17550  FtPP2C09 FtPinG0001010400.01 Ft1 E 428 47804.63 5.25 AT5G01700  FtPP2C10 FtPinG0000031900.01 Ft1 K 514 55200.25 5.97 AT4G16580  FtPP2C11 FtPinG0002541200.01 Ft1 F 280 30809.19 4.79 AT1G43900  FtPP2C12 FtPinG0008578800.01 Ft1 E 143 15670.68 4.55 AT5G36250  FtPP2C13 FtPinG0008774400.01 Ft1 D 391 43203.02 8.32 AT3G55050  FtPP2C14 FtPinG0000049400.01 Ft1 E 478 52554.7 5.75 AT3G02750  FtPP2C15 FtPinG0001924500.01 Ft1 J 1098 123818.42 5.79 AT3G63340  FtPP2C16 FtPinG0005550700.01 Ft2 F 243 27059.54 4.67 AT2G34740  FtPP2C17 FtPinG0006979700.01 Ft2 A 299 33628.33 5.43 AT5G57050  FtPP2C18 FtPinG0005305500.01 Ft2 D 385 42888 8.42 AT3G55050  FtPP2C19 FtPinG0007097100.01 Ft2 E 361 40439.85 6.22 AT5G27930  FtPP2C20 FtPinG0005064700.01 Ft2 H 434 46313.06 6.9 AT1G68410  FtPP2C21 FtPinG0002113600.01 Ft2 D 365 40592.46 9.34 AT4G33920  FtPP2C22 FtPinG0001288200.01 Ft2 F 289 31659.61 5.62 AT3G15260  FtPP2C23 FtPinG0003817400.01 Ft2 D 376 41665.65 8.35 AT3G12620  FtPP2C24 FtPinG0003843600.01 Ft2 C 231 25945.51 5.13 AT1G07630  FtPP2C25 FtPinG0003843800.01 Ft2 C 460 49949.84 4.93 AT1G07630  FtPP2C26 FtPinG0004061300.01 Ft3 E 411 45480.54 5.38 AT1G03590  FtPP2C27 FtPinG0004052000.01 Ft3 F 284 31200.57 6.08 AT4G28400  FtPP2C28 FtPinG0001077200.01 Ft3 D 384 42585.32 7.71 AT3G12620  FtPP2C29 FtPinG0007134800.01 Ft3 C 781 86042.5 6.11 AT2G35350  FtPP2C30 FtPinG0000399000.01 Ft3 G 370 40859.46 4.72 AT3G62260  FtPP2C31 FtPinG0006273600.01 Ft3 K 571 61622.16 4.34 AT4G33500  FtPP2C32 FtPinG0005944700.01 Ft3 K 447 48140.02 6.22 AT4G16580  FtPP2C33 FtPinG0005938600.01 Ft3 other 392 42742.89 6.28 AT4G27800  FtPP2C34 FtPinG0008967800.01 Ft3 G 388 42512.39 5.31 AT2G33700  FtPP2C35 FtPinG0001955600.01 Ft4 other 369 40203.33 6.65 AT1G18030  FtPP2C36 FtPinG0000422600.01 Ft4 C 760 83327.08 5.33 AT2G46920  FtPP2C37 FtPinG0004958300.01 Ft4 other 650 72121.51 6.05 AT2G40860  FtPP2C38 FtPinG0007629100.01 Ft4 A 418 46243.15 6.95 AT1G07430  FtPP2C39 FtPinG0004850700.01 Ft4 A 281 30694.86 5.17 AT3G11410  FtPP2C40 FtPinG0007284800.01 Ft4 G 351 38625.76 4.84 AT3G62260  FtPP2C41 FtPinG0003056400.01 Ft4 D 389 42830.72 7.05 AT4G33920  FtPP2C42 FtPinG0006823500.01 Ft4 D 376 42189.08 7.67 AT4G38520  FtPP2C43 FtPinG0008080000.01 Ft4 H 428 46437.92 7.93 AT1G09160  FtPP2C44 FtPinG0003042800.01 Ft5 A 546 59857.25 4.83 AT1G72770  FtPP2C45 FtPinG0000789800.01 Ft5 D 380 42004.58 6.22 AT4G33920  FtPP2C46 FtPinG0009574600.01 Ft5 A 325 35896.74 5.81 AT4G26080  FtPP2C47 FtPinG0000757400.01 Ft5 G 333 36659.53 4.87 AT2G25620  FtPP2C48 FtPinG0002661600.01 Ft6 D 394 43313.24 6.61 AT4G33920  FtPP2C49 FtPinG0006654000.01 Ft6 E 335 37121.45 4.65 AT3G06270  FtPP2C50 FtPinG0006346100.01 Ft6 A 355 38966.06 5.31 AT5G59220  FtPP2C51 FtPinG0003436800.01 Ft6 other 552 60493.54 5.55 AT5G19280  FtPP2C52 FtPinG0007243300.01 Ft6 A 299 33307.69 8.66 AT4G26080  FtPP2C53 FtPinG0008705200.01 Ft6 I 332 36429.36 5.18 AT4G31860  FtPP2C54 FtPinG0005774900.01 Ft6 D 289 32219.81 6.22 AT3G51370  FtPP2C55 FtPinG0002058400.01 Ft6 F 281 30663.56 6.65 AT1G22280  FtPP2C56 FtPinG0002727600.01 Ft7 F 285 31436.59 6.59 AT3G15260  FtPP2C57 FtPinG0002889200.01 Ft7 A 399 42836.56 5.08 AT3G11410  FtPP2C58 FtPinG0002098300.01 Ft7 B 317 34703.34 6.13 AT2G40180  FtPP2C59 FtPinG0008888300.01 Ft7 E 402 43957.91 4.83 AT3G06270  FtPP2C60 FtPinG0000915900.01 Ft7 F 261 29814.47 9.6 AT3G23360  FtPP2C61 FtPinG0005889600.01 Ft7 C 510 55641.59 5.33 AT3G16560  FtPP2C62 FtPinG0005230300.01 Ft7 K 255 28277.03 5.69 AT4G16580  FtPP2C63 FtPinG0008178900.01 Ft7 E 447 48799.28 7.04 AT3G02750  FtPP2C64 FtPinG0009176400.01 Ft7 D 377 42182.75 7.27 AT4G38520  FtPP2C65 FtPinG0003526300.01 Ft7 E 1083 119582.98 4.86 AT2G20050  FtPP2C66 FtPinG0002237600.01 Ft8 D 365 40459.51 9.21 AT4G33920  FtPP2C67 FtPinG0002198100.01 Ft8 E 368 41003.33 6.6 AT3G05640  FtPP2C68 FtPinG0002177600.01 Ft8 E 481 53213.07 6.36 AT3G02750  FtPP2C69 FtPinG0003403400.01 Ft8 F 302 32611.35 5.08 AT4G31750  FtPP2C70 FtPinG0003407300.01 Ft8 I 377 41294.32 5.17 AT4G31860  FtPP2C71 FtPinG0007163900.01 Ft8 B 248 27171.47 5.18 AT2G30020  FtPP2C72 FtPinG0009210100.01 Ft8 C 715 79644.1 5.94 AT3G09400  FtPP2C73 FtPinG0009231700.01 Ft8 K 309 33299.9 5.47 AT2G30170  FtPP2C74 FtPinG0003310600.01 Ft8 F 284 31177.35 5.71 AT4G28400  FtPP2C75 FtPinG0003328300.01 Ft8 E 462 50476.63 5.22 AT4G03415  FtPP2C76 FtPinG0005209600.01 Ft8 D 371 41154.79 6.31 AT3G17090  FtPP2C77 FtPinG0004213200.01 Ft8 C 619 67823.45 5.26 AT5G02400  FtPP2C78 FtPinG0004335200.01 Ft8 C 236 25907.69 7.09 AT3G16560  FtPP2C79 FtPinG0007226000.01 Ft8 F 343 37636.49 6.46 AT4G31750  FtPP2C80 FtPinG0007228800.01 Ft8 E 319 34858.2 5.21 AT5G26010  FtPP2C81 FtPinG0004297100.01 Ft8 G 323 35424.29 5.71 AT3G51470 |