| Dvir   | MT MSTNNCESMT SYFTNSYMGADMHHGHYPGNGVTDL DAQQMHHYSQNPN                     | 50 |
|--------|---|----|
| Dmoj   | MT MST NNCESMT SYFT NSYMGADMHHGHYPGNGVT DL DAQQMHHYSQNP N                 | 50 |
| Dgri   | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQN <u>P</u> N               | 50 |
| DmelH  | MT MST NNCESMT SYFT NSYMGA DMHHGHYPGNGVT DL DA QQMHHYSQN <mark>A</mark> N | 50 |
| DmelPM | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQN <mark>A</mark> N         | 50 |
| DmelPJ | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQN <mark>A</mark> N         | 50 |
| DmelPI | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQN <mark>A</mark> N         | 50 |
| DmelPN | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQN <mark>A</mark> N         | 50 |
| Dsec   | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQN <mark>A</mark> N         | 50 |
| DmelE  | MT MSTNNCESMT SYFTNSYMGADMHHGHYPGNGVTDL DAQQMHHYSQN <mark>A</mark> N      | 50 |
| DmelF  | MT MSTNNCESMT SYFTNSYMGADMHHGHYPGNGVTDL DAQQMHHYSQN <mark>A</mark> N      | 50 |
| DmelG  | MT MST NNCESMT SYFT NSYMGADMHHGHYPGNGVT DL DAQQMHHYSQN <mark>A</mark> N   | 50 |
| DmelPL | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQN <mark>A</mark> N         | 50 |
| DmelK  | MT MST NNCESMT SYFT NSYMGADMHHGHYPGNGVT DL DAQQMHHYSQNAN                  | 50 |
| Dsim   | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQNAN                        | 50 |
| DmelPD | MT MSTNNCESMT SYFTNSYMGADMHHGHYPGNGVTDL DAQQMHHYSQNAN                     | 50 |
| Dyak   | MT MSTNNCESMT SYFTNSYMGADMHHGHYPGNGVTDL DAQQMHHYSQNAN                     | 50 |
| Dere   | MT MSTNNCESMT SYFTNSYMGADMHHGHYPGNGVTDL DAQQMHHYSQNAN                     | 50 |
| Dana   | MT MST NNCESMT SYFT NSYMGADMHHGHYPGNGVT DL DAQQMHPYSQNPN                  | 50 |
| Dpse   | MTMSTNNCESMTSYFTNSYMGADMHHGHYPGNGVTDLDAQQMHHYSQNPN                        | 50 |
| Dper   | MT MST NNCESMT SYFT NSYMGADMHHGHYPGNGVT DL DAQQMHHYSQNP N                 | 50 |
| Dwil   | MT MSTNNCESMT SYFTNSYMGADMHHGHYPGNGVTDL DAQQMHHYSQNPN                     | 50 |
|        |   |    |

| Dvir   | QQGNMPYPRFPPYDRMPYYNGQGMDQQQQQHQGYSRPDSPSSQVG       | 95  |
|--------|---|-----|
| Dmoj   | QQGNMPYPRFPPYDRMPYYNGQGMDQQQQQQQQHQGYSRPDSPSSQVG    | 98  |
| Dgri   | QQGNMPYPRFPPYDRMPYYNGQGMDQQQQQHQGYSRPDSPSSQGG       | 95  |
| DmelH  | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQFHQVYSRPDSPSSQVG       | 94  |
| DmelPM | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelPJ | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelPI | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelPN | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| Dsec   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelE  | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelF  | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelG  | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelPL | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelK  | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| Dsim   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| DmelPD | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 94  |
| Dyak   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQQHQVYSRPDSPSSQVG       | 95  |
| Dere   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQVYSRPDSPSSQVG        | 95  |
| Dana   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQQQQQHQQHQVYSRPDSPSSQVG | 100 |
| Dpse   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQQQHQGYSRPDSPSSQVG      | 96  |
| Dper   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQQQQHQGYSRPDSPSSQVG     | 97  |
| Dwil   | HQGNMPYPRFPPYDRMPYYNGQGMDQQQQHQGYSRPDSPSSQVG        | 95  |
|        |   |     |

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| Dvir Dmoj Dgri DmelH DmelPM DmelPJ DmelPI DmelPN Dsec DmelE DmelF DmelG DmelPL DmelK Dsim DmelPD Dyak Dere Dana Dpse Dper | GVMPQAQTN | 131<br>134<br>138<br>130<br>130<br>130<br>130<br>130<br>130<br>130<br>130<br>130<br>130 |
|---|-----------|---|
| -   |           |   |
|   |           |   |

| Dvir   | QAPLQQQQHPQVTQQVTHPQQQQPVVYASCKLQAAVG-GLGMV          | 173 |
|--------|--|-----|
| Dmoj   | QAPLQQQF HPQVTQQVTHPQQQQ PVVYASCKLQAAVG- GLGMV       | 175 |
| Dgri   | QQAPHQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-SLGMV        | 182 |
| DmelH  | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelPM | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelPJ | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelPI | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelPN | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| Dsec   | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelE  | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelF  | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelG  | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelPL | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelK  | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| Dsim   | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| DmelPD | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| Dyak   | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 175 |
| Dere   | APQQLQQQLPQVTQQVTHPQQQQQQPVVYASCKLQAAVG-GLGMV        | 174 |
| Dana   | GPQ- HQQQI PQVTQQGTHPQQQQQQQQ PVVYASCKLQAAVG- GLGMV  | 177 |
| Dpse   | QQQQLQQL PQVTQQVTHPQQQQQQQQQQPVVYASCKL QAAVGVGL GL V | 190 |
| Dper   | QQQQLQQLPQVTQQVTHPQQQQQQQQQQPVVYASCKLQAAVGVGLGLV     | 193 |
| Dwil   | APQQLQQQQQQQQQHPQQQQQQPVVYASCKLQAAVGGGLGLV           | 171 |
|        |  |     |

| Dvir   | QEGGSPPL VDQMGGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 223 |
|--------|---|-----|
| Dmoj   | QEGGSPPL VDQMGGHHMNAQMSL PHHMGHPQAQL GYTDVGVPDVTEVHQN | 225 |
| Dgri   | QEGGSPPL VDQMGGHHMNAQMTL PHHMGHPQAQL GYTDVGVPDVTEVHQN | 232 |
| DmelH  | PEGGSPPL VDQMSGHHMNAQMTL PHHMGHPQAQL GYTDVGVPDVTEVHQN | 224 |
| DmelPM | PEGGSPPL VDQMSGHHMNAQMTL PHHMGHPQAQL GYTDVGVPDVTEVHQN | 224 |
| DmelPJ | PEGGSPPL VDQMSGHHMNAQMTL PHHMGHPQAQL GYTDVGVPDVTEVHQN | 224 |
| DmelPI | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 224 |
| DmelPN | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 224 |
| Dsec   | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 224 |
| DmelE  | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQVHQN                | 211 |
| DmelF  | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQVHQN                | 211 |
| DmelG  | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQVHQN                | 211 |
| DmelPL | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 224 |
| DmelK  | PEGGSPPL V D QMSGHHMN A QMT L PHHMGHP Q A QV HQN      | 211 |
| Dsim   | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 224 |
| DmelPD | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 224 |
| Dyak   | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 225 |
| Dere   | PEGGSPPL VDQMSGHHMNAQMTLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 224 |
| Dana   | PEGGSPPL VDQMTGHHMNAQMSLTHHMGHPQAQLGYTDVGVPDVTEVHQN   | 227 |
| Dpse   | PEGGSPPL VDQMTGHHMNAQMSLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 240 |
| Dper   | PEGGSPPL VDQMTGHHMNAQMSLPHHMGHPQAQLGYTDVGVPDVTEVHQN   | 243 |
| Dwil   | PEGGSPPL VDQMGGHHMNAQMTLPHHLGHPQSQLGYTDVGVPDVTEVHQN   | 221 |
|        |   |     |

| Dvir   | HHNMGMYGQQQTGVPP- VVAP- PQAMMHPGAGQGPPQMHQGHP- GQHTPP | 270 |
|--------|---|-----|
| Dmoj   | HHNMGMYGQQQTVVPP-VVAP-PQAMMHPGAGQGPPQMHQGHP-GQHTPP    | 272 |
| Dgri   | HHNMGMYGQQQTGVPP-VVAP-QQAMMHPGAGQGPPQMLQGHP-GQHTPP    | 279 |
| DmelH  | HHNMGMY-QQQSGVPP-VGAP-PQGMMHQGQGPPQMHQGHP-GQHTPP      | 268 |
| DmelPM | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| DmelPJ | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| DmelPI | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| DmelPN | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| Dsec   | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| DmelE  | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 255 |
| DmelF  | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 255 |
| DmelG  | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 255 |
| DmelPL | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| DmelK  | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 255 |
| Dsim   | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| DmelPD | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| Dyak   | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 269 |
| Dere   | HHNMGMY- QQQSGVPP- VGAP- PQGMMHQ GQGPPQMHQGHP- GQHTPP | 268 |
| Dana   | HHNMGMYGQQQTGVPP-VGAP-PQGMMHQGQGPSQMHQGHP-GQHTPP      | 272 |
| Dpse   | HHNMGMYGQQQTGVPP-VGAP-PQAMMHQGQGPPQMHQGHLSGQHTPP      | 286 |
| Dper   | HHNMGMYGQQQTGVPP-VGAP-PQAMMHQGQGPPQMHQGHLSGQHTPP      | 289 |
| Dwil   | HHNMGMYGQQQTGVPPGVGAPGPQGMMHAGQGPPQMHQGHP-GQHTPP      | 268 |
|        |   |     |

| Dvir   | SQNPSSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 316 |
|--------|---|-----|
| Dmoj   | SQNPSSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 318 |
| Dgri   | SQNPSSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 325 |
| DmelH  | SQNPNSQSSGMPSPLYPWMRSQFGKCQ                                       | 295 |
| DmelPM | SQNPNSQSSGMPSPLYPWMRSQFGKCQERKRGRQTYTRYQTLELEKEFHF                | 318 |
| DmelPJ | SQNPNSQSSGMPSPLYPWMRSQFGKCQERKRGRQTYTRYQTLELEKEFHF                | 318 |
| DmelPI | SQNPNSQSSGMPSPLYPWMRSQFGKCQERKRGRQTYTRYQTLELEKEFHF                | 318 |
| DmelPN | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 314 |
| Dsec   | SQNPNSQSSGMPSPLYPWMRSQF <u>E</u> R <u>K</u> R GRQTYTRYQTLELEKEFHF | 314 |
| DmelE  | SQNPNSQSSGMPSPLYPWMRSQFGKCQERKRGRQTYTRYQTLELEKEFHF                | 305 |
| DmelF  | SQNPNSQSSGMPSPLYPWMRSQFGKCQERKRGRQTYTRYQTLELEKEFHF                | 305 |
| DmelG  | SQNPNSQSSGMPSPLYPWMRSQFERKRGRQTYTRYQTLELEKEFHF                    | 301 |
| DmelPL | SQNPNSQSSGMPSPLYPWMRSQFGKCQERKRGRQTYTRYQTLELEKEFHF                | 318 |
| DmelK  | SQNPNSQSSGMPSPLYPWMRSQFERKRGRQTYTRYQTLELEKEFHF                    | 301 |
| Dsim   | SQNPNSQSSGMPSPLYPWMRSQFERKRGRQTYTRYQTLELEKEFHF                    | 314 |
| DmelPD | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 314 |
| Dyak   | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 315 |
| Dere   | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 314 |
| Dana   | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 318 |
| Dpse   | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 332 |
| Dper   | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 335 |
| Dwil   | SQNPNSQSSGMPSPLYPWMRSQFERKR GRQTYTRYQTLELEKEFHF                   | 314 |
|        |   |     |

| Dvir   | NRYLTRRRRIEIAHALCLTERQIKIWFQNRRMKWKKENKTKGEPGSGGEG   | 366 |
|--------|--|-----|
| Dmoj   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 368 |
| Dgri   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 375 |
| DmelH  |  | 295 |
| DmelPM | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 368 |
| DmelPJ | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 368 |
| DmelPI | NRYLTRRRRIEIAHALCLTERQIKIWFQNRRMKWKKENKTKGEPGSGGEG   | 368 |
| DmelPN | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 364 |
| Dsec   | NRYLTRRRRIEIAHALCLTERQIKIWFQNRRMKWKKENKTKGEPGSGGEG   | 364 |
| DmelE  | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 355 |
| DmelF  | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 355 |
| DmelG  | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 351 |
| DmelPL | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 368 |
| DmelK  | NRYLTRRRRIEIAHALCLTERQIKIWFQNRRMKWKKENKTKGEPGSGGEG   | 351 |
| Dsim   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 364 |
| DmeIPD | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 364 |
| Dyak   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 365 |
| Dere   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 364 |
| Dana   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 368 |
| Dpse   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 382 |
| Dper   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 385 |
| Dwil   | NRYLTRRRRIEI AHALCLTERQIKI WFQNRRMKWKKENKTKGEPGSGGEG | 364 |
|        |  |     |

| Dvir   | DEITPPNSPQ  | 376 |  |
|--------|-------------|-----|--|
| Dmoj   | DELTPPNSPQ  | 378 |  |
| Dgri   | DEI TPPNSPQ | 385 |  |
| DmelH  |             | 295 |  |
| DmelPM | DELTPPNSPQ  | 378 |  |
| DmelPJ | DEI TPPNSPQ | 378 |  |
| DmelPI | DELTPPNSPQ  | 378 |  |
| DmelPN | DELTPPNSPQ  | 374 |  |
| Dsec   | DELTPPNSPQ  | 374 |  |
| DmelE  | DELTPPNSPQ  | 365 |  |
| DmelF  | DEI TPPNSPQ | 365 |  |
| DmelG  | DELTPPNSPQ  | 361 |  |
| DmelPL | DEITPPNSPQ  | 378 |  |
| DmelK  | DELTPPNSPQ  | 361 |  |
| Dsim   | DELTPPNSPQ  | 374 |  |
| DmelPD | DELTPPNSPQ  | 374 |  |
| Dyak   | DEI TPPNSPQ | 375 |  |
| Dere   | DEI TPPNSPQ | 374 |  |
| Dana   | DELTPPNSPQ  | 378 |  |
| Dpse   | DELTPPNSPQ  | 392 |  |
| Dper   | DEI TPPNSPQ | 395 |  |
| Dwil   | DEI TPPNSPQ | 374 |  |
|        |             |     |  |