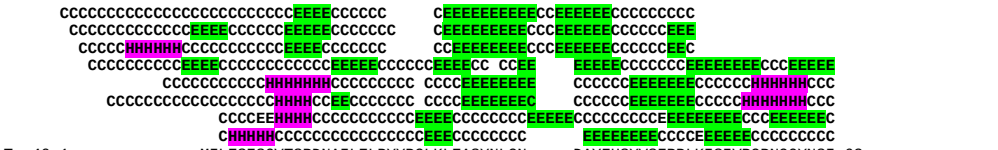

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Tom40-1  ------------MILESFSQVTSRDNAILELPYYPGLKLEASYNLGN-----DAYFHSYVSFRPLKISIVPGPNGQYNSI 63
Tom40-3  -------------MLSSFLHTNLRHQEIFDVGAFSGLNITFDSPTQSK----DTTISTVIFLQPLSISIVRGEGGKPETR 63
Tom40-2  --------------MKSGTEYYESMNNLFDNKNFPGIKFDVELNQSP-----ETTINSSINIRHPYFNIIEKNSQTKIVP 61
Tom40-4  MSEPEPKTEQTVTLLPQYEDINAENDVMFTLNDTKGLSLKLGG-KGKF----DVNYSIGGALRPTKVAIVPQVNGEFSIL 75
Tom40-5  --------MIFDPKQTKCPEFEAFESEIVGPTSLP-PNNTFEIVVAKK----LKDIGNLISVLSIKPRLYPLKYADQAGE 67
Tom40-6  --MGALQSTPEQKAPELVGDFDTLLGKVTDVASLN-LINGFEFTHVYQ----PQPSHSIVQTISISPRIHPVELAAQAGE 73
Porin-1  --------------MKQLKVILAQTKKLFNIPIQNKLCFNAPVMNNNFSLQLEKPSQKDVQMCVTTNLKFKNGLIVATAH 66
Porin-2  --------------MWERLAHHLEDSRLHLRPNIPSITFKKEADFLQG------RFTVNYPLSFNAELFVSSKGFKDASF 60
```

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Tom40-1  QNQTAVAYTTFKKTINKNIYLLTLGNQNSSFSLYFKQIPKVNIMSRFQIGDGMLSPAIKFSYLGKYIHPVIQISGAAQKL 143
Tom40-3  SNQTTNVKFNYQKTNEKGSIIMNLG-TSQFFFVNIKPIPNIGFSAQASVNRGSVCPSIGTNLVGKHFYFRSMLTMVGQKL 142
Tom40-2  SPIRIAQVVLNHQTSKLSNVILSLGQKNYISYQKSNSNKNTSVRCRCDFTSTSFIPSILLENNSKYHNFSIQAQTR---- 137
Tom40-4  SLPIRSLYLSLLKSFPKCSITSTLSSDMVDLSAIVNPTPFAIGKAGFLTNFQMWNAYAFAIFRQPWSNYCVSFSTS---- 151
Tom40-5  QRLPGNAAVNFTTDKIGFPISIDVSRDSPILFSATMPIIDSLNLAVSTTLEKKMKMSFTLNHFNPYTNLSFNYSVA---- 143
Tom40-6  KVIPGNYSAVFVGTVSDMEYRVALPLFGSPNVQLTVPLSQYSKTSLYVDCTLNPGITGYLKYRGPKVASEFAFSAS---- 149
Porin-1  SDNPCSILFQTNAIYPGVKFTTNISSNEKNTIISKVSYCTIYKNMIFTPKVKVILQDKPYNYLNTDVHFKTNVNYYG--- 143
Porin-2   HPSFSPNVPFYLNVTSDKTYTAAFNFKLPNEKLPEKLRNNTFKFSLSGDQSNYLSSVFALTHQNKYS------------ 127
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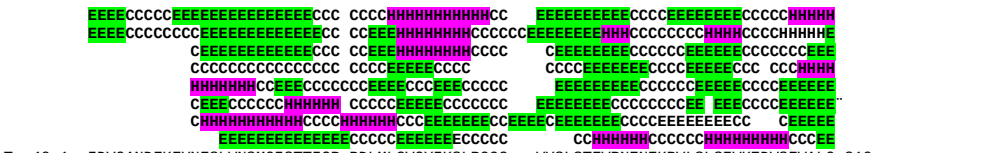

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Tom40-1  IDVQANDFKFYNFSLVNSMQISTTIGR-PDLMLGVQYIKSLRQQG---VYSLSTFVRNENEKRVLSLSFVKEDVSFVALQ 219
Tom40-3  ISVTDNKFNFFDVNRISTIDTSINLGR-NDFSAGLQIVRRFLGENSRWAYSVLVQKEWDNNNSAFDIAAVADPLFNLCLR 221
Tom40-2  -----------DMIYIALIDTKMTLRY-KNFIFTYQNVRNCVKGN----TAYSILLHYKHGLRDFQAAIMKDNFRTLTLR 201
Tom40-4  -----------ELKKPELQSASAVIGH-PNINFGIQYTPQD--------PAAKLSLMCYANIKSYKFHMASN-IMNYKAR 210
Tom40-5  -----------DSFKTALYNFKIASGVPKKFCVGFNGAISSKGNT-----EYSLIGSIKANQLNLSTILSKSQNLTISFV 207
Tom40-6  -----------NYFTQGNIIANFSTMY-KKTLFGAIIQKPLFSAG----YVFRAGCATDFGKFNDGIFLSLEPKLRINKS 213
Porin-1  -----------CGFTALFKKLEQSFTLIPYIRKFGHHAISLKFKNYKVVPEIYTIFPYEDFQFAFHTFYPTR---SLSFY 209
Porin-2  --------------ISLALRPCIIGGFYHGENVGVEFAYSLAEEQ-------PSMSAMFNKRFDRTEVSLMASMYGEGTA 186
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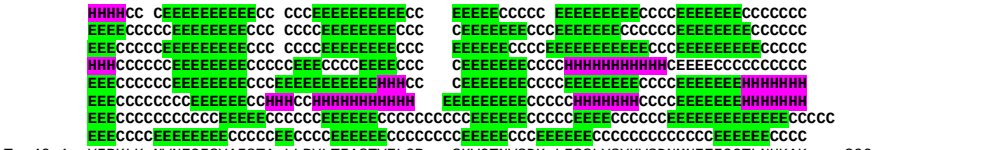

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Tom40-1  YIRKLK-NWNFGISYAISTA-LLPYLTIASTVELGR---SKVQTNVSDK-LISSLYSYKVSDNMNFEICGTLNHKAK--- 290
Tom40-3  YQRQVNPNWKFGITFATSKY-IEPRLQLTCKANLGK---STVHSSILTTGVVESKFTSKVSDTFTITVASILDHPAK--- 294
Tom40-2  HKHEINDKLTVGASLTADSN-LNSKVELAWIAKVND---AIIHSSIDTKLNVSTVYKQELYPQCNILVSTHLDHKNA--- 274
Tom40-4  LVKTINPQLSVGLQVRVNRMPAFVAADLSWIYTNKD---TQVHSIISTNGDVFSELSRKLNEKVALNVNCCLNHLEA--- 284
Tom40-5  GTHHPSDKTVSSAVLQFNPSTLQTDILFGFQRAFMS---SKVSAVMNTKGSVGSVFQKDVNEKYSIIISSFADHFQK--- 281
Tom40-6  ITYSPNEDTTGGIQLDILPSELRAKSAFFINRNFAM---TVFAFNVTSDATISSSLQRRFGKGYQMTLTSQADIFRK--- 287
Porin-1  SIYHPNLRNLFGANFTISHIGHGPEYLFMIGCSHNIGNDSSIRYVLRSDSKASFELNVPYKNFLKMTFTGNFEYSRANKL 289
Porin-2  LITSDFDKVRISSYLRANPFTFDSTATFGIQIPFGNSFGNISFSIPSKTIRFEAALNLQYEEDKKSGITVYWPFSPN--- 263
```

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Tom40-1  SYTIGLGFVFNPDDFVST 308
Tom40-3  NYKLGLGFYSQ------- 305
Tom40-2  QYNFGLGFQWVENSTN-- 290
Tom40-4  DYSFGIDLSINQ------ 296
Tom40-5  LYSLGMAVSWRDTSSD-- 297
Tom40-6  HYNFGLGLVFA------- 298
Porin-1  NSNFGAVIIFDKK----- 302
Porin-2  --TIKSVLA--------- 270
```