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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | STM1 | STM2 | STM3 | STM4 | STM5 | STM6 | SIM1 | SIM2 | SIM3 | SIM4 | SIM5 | SIM6 | SIM7 |
| STM1 | 1.000 | 0.549 | 0.606 | 0.580 | 0.594 | 0.477 | 0.346 | 0.322 | 0.352 | 0.280 | 0.338 | 0.249 | 0.418 |
| STM2 | 0.549 | 1.000 | 0.597 | 0.438 | 0.459 | 0.481 | 0.331 | 0.261 | 0.354 | 0.275 | 0.316 | 0.247 | 0.393 |
| STM3 | 0.606 | 0.597 | 1.000 | 0.435 | 0.489 | 0.538 | 0.321 | 0.254 | 0.335 | 0.264 | 0.311 | 0.248 | 0.393 |
| STM4 | 0.580 | 0.438 | 0.435 | 1.000 | 0.492 | 0.348 | 0.337 | 0.349 | 0.367 | 0.324 | 0.357 | 0.290 | 0.395 |
| STM5 | 0.594 | 0.459 | 0.489 | 0.492 | 1.000 | 0.437 | 0.335 | 0.359 | 0.336 | 0.292 | 0.328 | 0.267 | 0.398 |
| STM6 | 0.477 | 0.481 | 0.538 | 0.348 | 0.437 | 1.000 | 0.289 | 0.217 | 0.297 | 0.231 | 0.271 | 0.221 | 0.337 |
| SIM1 | 0.346 | 0.331 | 0.321 | 0.337 | 0.335 | 0.289 | 1.000 | 0.591 | 0.655 | 0.620 | 0.699 | 0.518 | 0.683 |
| SIM2 | 0.322 | 0.261 | 0.254 | 0.349 | 0.359 | 0.217 | 0.591 | 1.000 | 0.530 | 0.540 | 0.595 | 0.414 | 0.558 |
| SIM3 | 0.352 | 0.354 | 0.335 | 0.367 | 0.336 | 0.297 | 0.655 | 0.530 | 1.000 | 0.618 | 0.647 | 0.520 | 0.645 |
| SIM4 | 0.280 | 0.275 | 0.264 | 0.324 | 0.292 | 0.231 | 0.620 | 0.540 | 0.618 | 1.000 | 0.720 | 0.584 | 0.638 |
| SIM5 | 0.338 | 0.316 | 0.311 | 0.357 | 0.328 | 0.271 | 0.699 | 0.595 | 0.647 | 0.720 | 1.000 | 0.596 | 0.729 |
| SIM6 | 0.249 | 0.247 | 0.248 | 0.290 | 0.267 | 0.221 | 0.518 | 0.414 | 0.520 | 0.584 | 0.596 | 1.000 | 0.557 |
| SIM7 | 0.418 | 0.393 | 0.393 | 0.395 | 0.398 | 0.337 | 0.683 | 0.558 | 0.645 | 0.638 | 0.729 | 0.557 | 1.000 |
| TTM1 | 0.408 | 0.333 | 0.451 | 0.254 | 0.293 | 0.265 | 0.174 | 0.122 | 0.181 | 0.121 | 0.195 | 0.119 | 0.233 |
| TTM2 | 0.381 | 0.318 | 0.441 | 0.235 | 0.268 | 0.261 | 0.178 | 0.109 | 0.174 | 0.132 | 0.190 | 0.124 | 0.224 |
| TTM3 | 0.392 | 0.337 | 0.467 | 0.237 | 0.287 | 0.264 | 0.180 | 0.114 | 0.179 | 0.128 | 0.195 | 0.123 | 0.227 |
| TTM4 | 0.395 | 0.328 | 0.450 | 0.249 | 0.289 | 0.261 | 0.189 | 0.131 | 0.193 | 0.134 | 0.213 | 0.134 | 0.243 |
| TTM5 | 0.387 | 0.320 | 0.446 | 0.243 | 0.296 | 0.265 | 0.179 | 0.125 | 0.185 | 0.135 | 0.203 | 0.126 | 0.240 |
| TTM6 | 0.246 | 0.201 | 0.291 | 0.144 | 0.185 | 0.264 | 0.108 | 0.048 | 0.104 | 0.066 | 0.108 | 0.045 | 0.127 |
| TIM1 | 0.260 | 0.223 | 0.313 | 0.172 | 0.211 | 0.191 | 0.247 | 0.167 | 0.236 | 0.210 | 0.264 | 0.210 | 0.279 |
| TIM2 | 0.298 | 0.257 | 0.353 | 0.200 | 0.234 | 0.204 | 0.239 | 0.184 | 0.235 | 0.211 | 0.275 | 0.201 | 0.296 |
| TIM3 | 0.233 | 0.198 | 0.269 | 0.154 | 0.190 | 0.169 | 0.210 | 0.146 | 0.206 | 0.192 | 0.238 | 0.188 | 0.248 |
| TIM4 | 0.209 | 0.176 | 0.259 | 0.151 | 0.183 | 0.163 | 0.217 | 0.157 | 0.209 | 0.207 | 0.250 | 0.216 | 0.253 |
| TIM5 | 0.244 | 0.215 | 0.317 | 0.168 | 0.208 | 0.187 | 0.247 | 0.177 | 0.236 | 0.236 | 0.295 | 0.233 | 0.290 |
| TIM6 | 0.205 | 0.176 | 0.270 | 0.133 | 0.181 | 0.154 | 0.221 | 0.151 | 0.208 | 0.222 | 0.267 | 0.231 | 0.264 |
| TIM7 | 0.262 | 0.228 | 0.325 | 0.179 | 0.212 | 0.193 | 0.242 | 0.166 | 0.234 | 0.210 | 0.270 | 0.200 | 0.291 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | TTM1 | TTM2 | TTM3 | TTM4 | TTM5 | TTM6 | TIM1 | TIM2 | TIM3 | TIM4 | TIM5 | TIM6 | TIM7 |
| STM1 | 0.408 | 0.381 | 0.392 | 0.395 | 0.387 | 0.246 | 0.260 | 0.298 | 0.233 | 0.209 | 0.244 | 0.205 | 0.262 |
| STM2 | 0.333 | 0.318 | 0.337 | 0.328 | 0.320 | 0.201 | 0.223 | 0.257 | 0.198 | 0.176 | 0.215 | 0.176 | 0.228 |
| STM3 | 0.451 | 0.441 | 0.467 | 0.450 | 0.446 | 0.291 | 0.313 | 0.353 | 0.269 | 0.259 | 0.317 | 0.270 | 0.325 |
| STM4 | 0.254 | 0.235 | 0.237 | 0.249 | 0.243 | 0.144 | 0.172 | 0.200 | 0.154 | 0.151 | 0.168 | 0.133 | 0.179 |
| STM5 | 0.293 | 0.268 | 0.287 | 0.289 | 0.296 | 0.185 | 0.211 | 0.234 | 0.190 | 0.183 | 0.208 | 0.181 | 0.212 |
| STM6 | 0.265 | 0.261 | 0.264 | 0.261 | 0.265 | 0.264 | 0.191 | 0.204 | 0.169 | 0.163 | 0.187 | 0.154 | 0.193 |
| SIM1 | 0.174 | 0.178 | 0.180 | 0.189 | 0.179 | 0.108 | 0.247 | 0.239 | 0.210 | 0.217 | 0.247 | 0.221 | 0.242 |
| SIM2 | 0.122 | 0.109 | 0.114 | 0.131 | 0.125 | 0.048 | 0.167 | 0.184 | 0.146 | 0.157 | 0.177 | 0.151 | 0.166 |
| SIM3 | 0.181 | 0.174 | 0.179 | 0.193 | 0.185 | 0.104 | 0.236 | 0.235 | 0.206 | 0.209 | 0.236 | 0.208 | 0.234 |
| SIM4 | 0.121 | 0.132 | 0.128 | 0.134 | 0.135 | 0.066 | 0.210 | 0.211 | 0.192 | 0.207 | 0.236 | 0.222 | 0.210 |
| SIM5 | 0.195 | 0.190 | 0.195 | 0.213 | 0.203 | 0.108 | 0.264 | 0.275 | 0.238 | 0.250 | 0.295 | 0.267 | 0.270 |
| SIM6 | 0.119 | 0.124 | 0.123 | 0.134 | 0.126 | 0.045 | 0.210 | 0.201 | 0.188 | 0.216 | 0.233 | 0.231 | 0.200 |
| SIM7 | 0.233 | 0.224 | 0.227 | 0.243 | 0.240 | 0.127 | 0.279 | 0.296 | 0.248 | 0.253 | 0.290 | 0.264 | 0.291 |
| TTM1 | 1.000 | 0.907 | 0.925 | 0.965 | 0.957 | 0.613 | 0.634 | 0.730 | 0.575 | 0.545 | 0.645 | 0.564 | 0.662 |
| TTM2 | 0.907 | 1.000 | 0.892 | 0.907 | 0.895 | 0.645 | 0.645 | 0.706 | 0.585 | 0.555 | 0.644 | 0.574 | 0.672 |
| TTM3 | 0.925 | 0.892 | 1.000 | 0.942 | 0.906 | 0.614 | 0.625 | 0.699 | 0.564 | 0.537 | 0.628 | 0.557 | 0.651 |
| TTM4 | 0.965 | 0.907 | 0.942 | 1.000 | 0.945 | 0.607 | 0.652 | 0.749 | 0.589 | 0.565 | 0.665 | 0.587 | 0.677 |
| TTM5 | 0.957 | 0.895 | 0.906 | 0.945 | 1.000 | 0.613 | 0.640 | 0.734 | 0.580 | 0.556 | 0.653 | 0.583 | 0.668 |
| TTM6 | 0.613 | 0.645 | 0.614 | 0.607 | 0.613 | 1.000 | 0.460 | 0.466 | 0.437 | 0.387 | 0.438 | 0.384 | 0.481 |
| TIM1 | 0.634 | 0.645 | 0.625 | 0.652 | 0.640 | 0.460 | 1.000 | 0.864 | 0.850 | 0.844 | 0.916 | 0.839 | 0.884 |
| TIM2 | 0.730 | 0.706 | 0.699 | 0.749 | 0.734 | 0.466 | 0.864 | 1.000 | 0.771 | 0.766 | 0.860 | 0.801 | 0.819 |
| TIM3 | 0.575 | 0.585 | 0.564 | 0.589 | 0.580 | 0.437 | 0.850 | 0.771 | 1.000 | 0.863 | 0.827 | 0.833 | 0.848 |
| TIM4 | 0.545 | 0.555 | 0.537 | 0.565 | 0.556 | 0.387 | 0.844 | 0.766 | 0.863 | 1.000 | 0.855 | 0.869 | 0.866 |
| TIM5 | 0.645 | 0.644 | 0.628 | 0.665 | 0.653 | 0.438 | 0.916 | 0.860 | 0.827 | 0.855 | 1.000 | 0.874 | 0.860 |
| TIM6 | 0.564 | 0.574 | 0.557 | 0.587 | 0.583 | 0.384 | 0.839 | 0.801 | 0.833 | 0.869 | 0.874 | 1.000 | 0.819 |
| TIM7 | 0.662 | 0.672 | 0.651 | 0.677 | 0.668 | 0.481 | 0.884 | 0.819 | 0.848 | 0.866 | 0.860 | 0.819 | 1.000 |