**Supporting Table S1: kSORT Performance (selected top 13 12-gene Models from selected 17 genes)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model | Adult Training-Set (n=32) | Pediatric + Adult Test-Set (n=68)  | Description |    |    |    |    |    |    |    |
| **1**  | **90.63%**  | **88.24%**  | **CFLAR, PSEN1, CEACAM4, NAMPT, RHEB, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, EPOR,**  |
| 2  | 90.63%  | 86.27%  | CFLAR, PSEN1, CEACAM4, NAMPT, RHEB, GZMK, NKTR, DUSP1, ITGAX, SLC25A37, RXRA, EPOR,  |
| 3  | 90.63%  | 86.27%  | CFLAR, PSEN1, CEACAM4, RHEB, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, RXRA, EPOR,  |
| 4  | 90.63%  | 84.31%  | CFLAR, PSEN1, CEACAM4, NAMPT, GZMK, NKTR, DUSP1, ITGAX, SLC25A37, RYBP, RXRA, EPOR,  |
| 5  | 90.63%  | 82.35%  | CFLAR, MAPK9, PSEN1, CEACAM4, GZMK, NKTR, DUSP1, RARA, SLC25A37, RYBP, RXRA, EPOR,  |
| 6  | 90.63%  | 80.39%  | CFLAR, PSEN1, CEACAM4, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, RYBP, RXRA, EPOR,  |
| 7  | 90.63%  | 80.39%  | CFLAR, MAPK9, PSEN1, CEACAM4, NAMPT, GZMK, NKTR, DUSP1, ITGAX, SLC25A37, RXRA, EPOR,  |
| 8  | 90.63%  | 80.39%  | CFLAR, PSEN1, CEACAM4, NAMPT, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, RYBP, EPOR,  |
| 9  | 90.63%  | 80.39%  | CFLAR, PSEN1, CEACAM4, NAMPT, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, RXRA, EPOR,  |
| 10  | 90.63%  | 78.43%  | CFLAR, MAPK9, PSEN1, CEACAM4, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, RXRA, EPOR,  |
| 11  | 90.63%  | 78.43%  | CFLAR, MAPK9, PSEN1, CEACAM4, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, RYBP, EPOR,  |
| 12  | 90.63%  | 78.43%  | CFLAR, MAPK9, PSEN1, CEACAM4, NAMPT, GZMK, NKTR, ITGAX, SLC25A37, RYBP, RXRA, EPOR,  |
| 13  | 90.63%  | 78.43%  | CFLAR, MAPK9, PSEN1, CEACAM4, NAMPT, GZMK, NKTR, DUSP1, RARA, ITGAX, SLC25A37, EPOR,  |