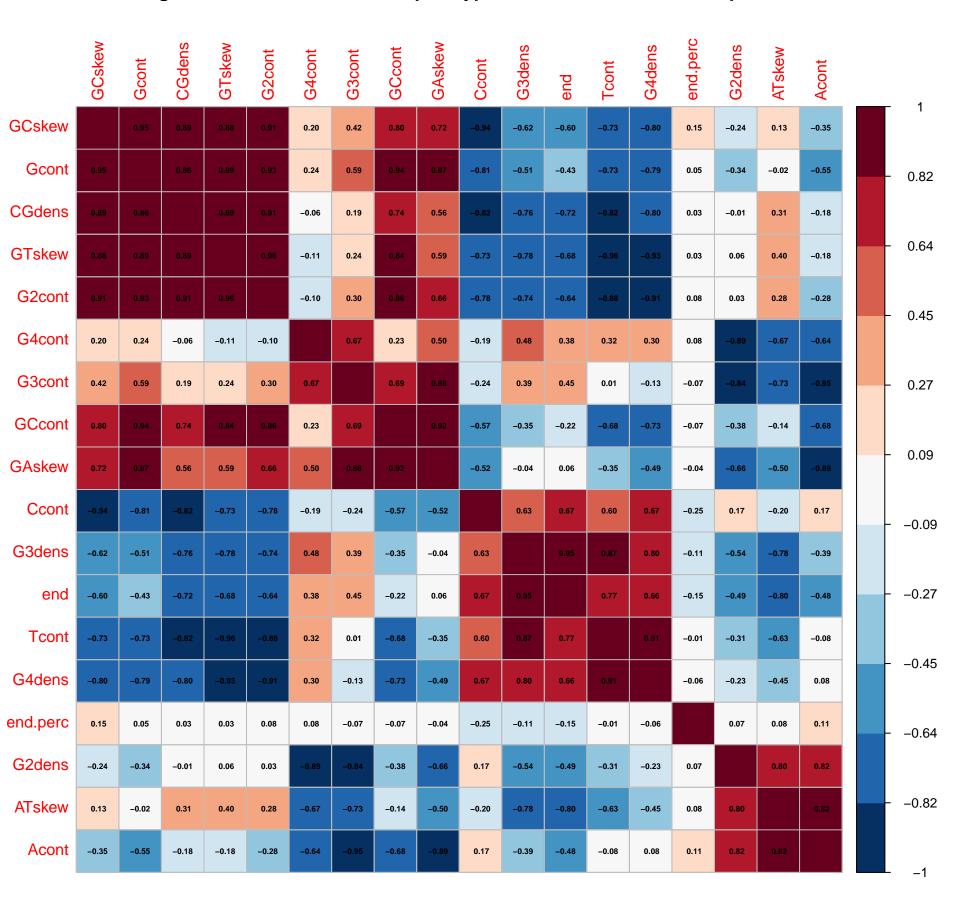
## gene\_T7\_init\_VR\_19,treat\_C,peaktype\_TOP,thres\_0,VR\_19\_end\_spearman

|          | G3cont | GCcont | GAskew | GCskew | Gcont | CGdens | GTskew | G2cont | G4cont | end.perc | Tcont | G4dens | Ccont | G3dens | end   | ATskew | Acont | G2dens | 4       |
|----------|--------|--------|--------|--------|-------|--------|--------|--------|--------|----------|-------|--------|-------|--------|-------|--------|-------|--------|---------|
| G3cont   |        | 0.90   | 0.95   | 0.60   | 0.76  | 0.43   | 0.48   | 0.55   | 0.43   | 0.00     | -0.08 | -0.33  | -0.34 | 0.11   | 0.13  | -0.41  | -0.94 | -0.67  | - 1<br> |
| GCcont   | 0.90   |        | 0.96   | 0.74   | 0.89  | 0.67   | 0.72   | 0.76   | 0.30   | -0.03    | -0.41 | -0.59  | -0.48 | -0.25  | -0.20 | -0.12  | -0.86 | -0.57  | - 0.82  |
| GAskew   | 0.95   | 0.96   |        | 0.72   | 0.86  | 0.57   | 0.58   | 0.67   | 0.44   | 0.05     | -0.18 | -0.42  | -0.47 | -0.10  | -0.05 | -0.34  | -0.94 | -0.67  |         |
| GCskew   | 0.60   | 0.74   | 0.72   |        | 0.95  | 0.85   | 0.78   | 0.85   | 0.41   | 0.16     | -0.50 | -0.67  | -0.93 | -0.66  | -0.65 | 0.10   | -0.53 | -0.65  | - 0.64  |
| Gcont    | 0.76   | 0.89   | 0.86   | 0.95   |       | 0.83   | 0.83   | 0.89   | 0.37   | 0.10     | -0.53 | -0.69  | -0.80 | -0.54  | -0.51 | 0.00   | -0.70 | -0.65  | - 0.45  |
| CGdens   | 0.43   | 0.67   | 0.57   | 0.85   | 0.83  |        | 0.88   | 0.91   | 0.17   | 0.07     | -0.66 | -0.82  | -0.79 | -0.75  | -0.72 | 0.19   | -0.41 | -0.43  | 0.10    |
| GTskew   | 0.48   | 0.72   | 0.58   | 0.78   | 0.83  | 0.88   |        | 0.95   | -0.03  | 0.12     | -0.83 | -0.91  | -0.68 | -0.71  | -0.65 | 0.23   | -0.44 | -0.29  | - 0.27  |
| G2cont   | 0.55   | 0.76   | 0.67   | 0.85   | 0.89  | 0.91   | 0.95   |        | 0.03   | 0.13     | -0.73 | -0.90  | -0.75 | -0.71  | -0.64 | 0.11   | -0.53 | -0.35  |         |
| G4cont   | 0.43   | 0.30   | 0.44   | 0.41   | 0.37  | 0.17   | -0.03  | 0.03   |        | 0.15     | 0.35  | 0.32   | -0.35 | 0.12   | 0.08  | -0.35  | -0.40 | -0.76  | - 0.09  |
| end.perc | 0.00   | -0.03  | 0.05   | 0.16   | 0.10  | 0.07   | 0.12   | 0.13   | 0.15   |          | 0.01  | -0.02  | -0.25 | -0.13  | -0.11 | -0.07  | 0.00  | -0.02  | 0.09    |
| Tcont    | -0.08  | -0.41  | -0.18  | -0.50  | -0.53 | -0.66  | -0.83  | -0.73  | 0.35   | 0.01     |       | 0.85   | 0.48  | 0.78   | 0.77  | -0.63  | 0.00  | -0.11  |         |
| G4dens   | -0.33  | -0.59  | -0.42  | -0.67  | -0.69 | -0.82  | -0.91  | -0.90  | 0.32   | -0.02    | 0.85  |        | 0.61  | 0.74   | 0.69  | -0.33  | 0.29  | 0.08   | 0.27    |
| Ccont    | -0.34  | -0.48  | -0.47  | -0.93  | -0.80 | -0.79  | -0.68  | -0.75  | -0.35  | -0.25    | 0.48  | 0.61   |       | 0.75   | 0.77  | -0.20  | 0.26  | 0.51   |         |
| G3dens   | 0.11   | -0.25  | -0.10  | -0.66  | -0.54 | -0.75  | -0.71  | -0.71  | 0.12   | -0.13    | 0.78  | 0.74   | 0.75  |        | 0.96  | -0.59  | -0.12 | 0.01   | 0.45    |
| end      | 0.13   | -0.20  | -0.05  | -0.65  | -0.51 | -0.72  | -0.65  | -0.64  | 0.08   | -0.11    | 0.77  | 0.69   | 0.77  | 0.96   |       | -0.67  | -0.21 | 0.00   | 0.64    |
| ATskew   | -0.41  | -0.12  | -0.34  | 0.10   | 0.00  | 0.19   | 0.23   | 0.11   | -0.35  | -0.07    | -0.63 | -0.33  | -0.20 | -0.59  | -0.67 |        | 0.57  | 0.40   |         |
| Acont    | -0.94  | -0.86  | -0.94  | -0.53  | -0.70 | -0.41  | -0.44  | -0.53  | -0.40  | 0.00     | 0.00  | 0.29   | 0.26  | -0.12  | -0.21 | 0.57   |       | 0.65   | 0.82    |
| G2dens   | -0.67  | -0.57  | -0.67  | -0.65  | -0.65 | -0.43  | -0.29  | -0.35  | -0.76  | -0.02    | -0.11 | 80.0   | 0.51  | 0.01   | 0.00  | 0.40   | 0.65  |        | 1       |

|          | GAskew | Gcont | Tcont | end   | G4cont | G4dens | G3cont | G3dens | GCskew | end.perc | GTskew | ATskew | Acont | CGdens | G2cont | G2dens | GCcont | Ccont | _ 1     |
|----------|--------|-------|-------|-------|--------|--------|--------|--------|--------|----------|--------|--------|-------|--------|--------|--------|--------|-------|---------|
| GAskew   |        | 0.89  | 0.83  | 0.77  | 0.72   | 0.68   | 0.80   | 0.73   | 0.58   | 0.12     | -0.75  | -0.90  | -0.98 | -0.70  | -0.66  | -0.79  | 0.35   | -0.35 | - 1<br> |
| Gcont    | 0.89   |       | 0.62  | 0.75  | 0.79   | 0.71   | 0.84   | 0.72   | 0.77   | 0.22     | -0.52  | -0.70  | -0.81 | -0.71  | -0.58  | -0.78  | 0.41   | -0.49 | - 0.82  |
| Tcont    | 0.83   | 0.62  |       | 0.79  | 0.72   | 0.70   | 0.72   | 0.71   | 0.38   | -0.08    | -0.99  | -0.99  | -0.92 | -0.72  | -0.76  | -0.78  | -0.01  | -0.35 |         |
| end      | 0.77   | 0.75  | 0.79  |       | 0.94   | 0.90   | 0.93   | 0.90   | 0.48   | 0.14     | -0.76  | -0.80  | -0.80 | -0.89  | -0.96  | -0.99  | 0.19   | -0.35 | - 0.64  |
| G4cont   | 0.72   | 0.79  | 0.72  | 0.94  |        | 0.97   | 0.95   | 0.94   | 0.63   | 0.23     | -0.68  | -0.74  | -0.74 | -0.91  | -0.87  | -0.94  | 0.08   | -0.54 | - 0.45  |
| G4dens   | 0.68   | 0.71  | 0.70  | 0.90  | 0.97   |        | 0.92   | 0.97   | 0.58   | 0.29     | -0.67  | -0.73  | -0.71 | -0.92  | -0.85  | -0.89  | -0.02  | -0.55 | 0.43    |
| G3cont   | 0.80   | 0.84  | 0.72  | 0.93  | 0.95   | 0.92   |        | 0.96   | 0.68   | 0.37     | -0.66  | -0.77  | -0.79 | -0.94  | -0.82  | -0.93  | 0.16   | -0.55 | - 0.27  |
| G3dens   | 0.73   | 0.72  | 0.71  | 0.90  | 0.94   | 0.97   | 0.96   |        | 0.60   | 0.39     | -0.67  | -0.75  | -0.75 | -0.95  | -0.84  | -0.90  | 0.01   | -0.55 |         |
| GCskew   | 0.58   | 0.77  | 0.38  | 0.48  | 0.63   | 0.58   | 0.68   | 0.60   |        | 0.53     | -0.28  | -0.42  | -0.50 | -0.70  | -0.32  | -0.52  | -0.09  | -0.89 | - 0.09  |
| end.perc | 0.12   | 0.22  | -0.08 | 0.14  | 0.23   | 0.29   | 0.37   | 0.39   | 0.53   |          | 0.12   | 0.02   | -0.05 | -0.41  | -0.03  | -0.13  | -0.32  | -0.58 | 0.09    |
| GTskew   | -0.75  | -0.52 | -0.99 | -0.76 | -0.68  | -0.67  | -0.66  | -0.67  | -0.28  | 0.12     |        | 0.95   | 0.86  | 0.68   | 0.76   | 0.75   | 0.09   | 0.30  |         |
| ATskew   | -0.90  | -0.70 | -0.99 | -0.80 | -0.74  | -0.73  | -0.77  | -0.75  | -0.42  | 0.02     | 0.95   |        | 0.97  | 0.73   | 0.75   | 0.80   | -0.08  | 0.35  | 0.27    |
| Acont    | -0.98  | -0.81 | -0.92 | -0.80 | -0.74  | -0.71  | -0.79  | -0.75  | -0.50  | -0.05    | 0.86   | 0.97   |       | 0.72   | 0.71   | 0.80   | -0.24  | 0.33  |         |
| CGdens   | -0.70  | -0.71 | -0.72 | -0.89 | -0.91  | -0.92  | -0.94  | -0.95  | -0.70  | -0.41    | 0.68   | 0.73   | 0.72  |        | 0.81   | 0.88   | 0.12   | 0.68  | 0.45    |
| G2cont   | -0.66  | -0.58 | -0.76 | -0.96 | -0.87  | -0.85  | -0.82  | -0.84  | -0.32  | -0.03    | 0.76   | 0.75   | 0.71  | 0.81   |        | 0.96   | -0.09  | 0.24  | 0.64    |
| G2dens   | -0.79  | -0.78 | -0.78 | -0.99 | -0.94  | -0.89  | -0.93  | -0.90  | -0.52  | -0.13    | 0.75   | 0.80   | 0.80  | 0.88   | 0.96   |        | -0.21  | 0.36  |         |
| GCcont   | 0.35   | 0.41  | -0.01 | 0.19  | 0.08   | -0.02  | 0.16   | 0.01   | -0.09  | -0.32    | 0.09   | -0.08  | -0.24 | 0.12   | -0.09  | -0.21  |        | 0.51  | 0.82    |
| Ccont    | -0.35  | -0.49 | -0.35 | -0.35 | -0.54  | -0.55  | -0.55  | -0.55  | -0.89  | -0.58    | 0.30   | 0.35   | 0.33  | 0.68   | 0.24   | 0.36   | 0.51   |       | 1       |

## gene\_T7\_init\_VR\_19,treat\_C,peaktype\_TOP,thres\_0,VR\_19\_end\_pearson



|          | end.perc | GCskew | Gcont | GAskew | Tcont | G3cont | G3dens | end   | G4cont | G4dens | GTskew | ATskew | Acont | CGdens | G2cont | G2dens | GCcont | Ccont | 1      |
|----------|----------|--------|-------|--------|-------|--------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|
| end.perc |          | 0.65   | 0.24  | -0.12  | -0.01 | 0.46   | 0.47   | 0.22  | 0.35   | 0.36   | 0.04   | 0.09   | 0.18  | -0.50  | -0.21  | -0.25  | -0.43  | -0.71 |        |
| GCskew   | 0.65     |        | 0.70  | 0.37   | 0.46  | 0.69   | 0.68   | 0.52  | 0.68   | 0.67   | -0.39  | -0.39  | -0.30 | -0.67  | -0.46  | -0.60  | -0.20  | -0.95 | - 0.82 |
| Gcont    | 0.24     | 0.70   |       | 0.78   | 0.59  | 0.77   | 0.75   | 0.70  | 0.72   | 0.69   | -0.46  | -0.65  | -0.70 | -0.56  | -0.56  | -0.79  | 0.56   | -0.46 |        |
| GAskew   | -0.12    | 0.37   | 0.78  |        | 0.90  | 0.70   | 0.68   | 0.77  | 0.69   | 0.66   | -0.84  | -0.96  | -0.99 | -0.56  | -0.71  | -0.81  | 0.65   | -0.13 | - 0.64 |
| Tcont    | -0.01    | 0.46   | 0.59  | 0.90   |       | 0.68   | 0.67   | 0.75  | 0.70   | 0.69   | -0.99  | -0.98  | -0.93 | -0.66  | -0.75  | -0.77  | 0.28   | -0.32 | - 0.45 |
| G3cont   | 0.46     | 0.69   | 0.77  | 0.70   | 0.68  |        | 1.00   | 0.90  | 0.92   | 0.92   | -0.61  | -0.68  | -0.66 | -0.92  | -0.84  | -0.91  | 0.26   | -0.54 | 0.43   |
| G3dens   | 0.47     | 0.68   | 0.75  | 0.68   | 0.67  | 1.00   |        | 0.90  | 0.92   | 0.91   | -0.59  | -0.66  | -0.64 | -0.92  | -0.84  | -0.90  | 0.24   | -0.53 | 0.27   |
| end      | 0.22     | 0.52   | 0.70  | 0.77   | 0.75  | 0.90   | 0.90   |       | 0.92   | 0.92   | -0.69  | -0.76  | -0.75 | -0.88  | -0.96  | -0.98  | 0.36   | -0.35 |        |
| G4cont   | 0.35     | 0.68   | 0.72  | 0.69   | 0.70  | 0.92   | 0.92   | 0.92  |        | 1.00   | -0.64  | -0.69  | -0.65 | -0.87  | -0.89  | -0.92  | 0.20   | -0.55 | - 0.09 |
| G4dens   | 0.36     | 0.67   | 0.69  | 0.66   | 0.69  | 0.92   | 0.91   | 0.92  | 1.00   |        | -0.63  | -0.67  | -0.63 | -0.87  | -0.89  | -0.92  | 0.18   | -0.54 | 0.09   |
| GTskew   | 0.04     | -0.39  | -0.46 | -0.84  | -0.99 | -0.61  | -0.59  | -0.69 | -0.64  | -0.63  |        | 0.96   | 0.88  | 0.62   | 0.72   | 0.69   | -0.19  | 0.28  |        |
| ATskew   | 0.09     | -0.39  | -0.65 | -0.96  | -0.98 | -0.68  | -0.66  | -0.76 | -0.69  | -0.67  | 0.96   |        | 0.98  | 0.61   | 0.75   | 0.78   | -0.45  | 0.20  | 0.27   |
| Acont    | 0.18     | -0.30  | -0.70 | -0.99  | -0.93 | -0.66  | -0.64  | -0.75 | -0.65  | -0.63  | 0.88   | 0.98   |       | 0.54   | 0.71   | 0.78   | -0.62  | 0.07  |        |
| CGdens   | -0.50    | -0.67  | -0.56 | -0.56  | -0.66 | -0.92  | -0.92  | -0.88 | -0.87  | -0.87  | 0.62   | 0.61   | 0.54  |        | 0.86   | 0.84   | 0.01   | 0.60  | 0.45   |
| G2cont   | -0.21    | -0.46  | -0.56 | -0.71  | -0.75 | -0.84  | -0.84  | -0.96 | -0.89  | -0.89  | 0.72   | 0.75   | 0.71  | 0.86   |        | 0.95   | -0.24  | 0.33  | 0.64   |
| G2dens   | -0.25    | -0.60  | -0.79 | -0.81  | -0.77 | -0.91  | -0.90  | -0.98 | -0.92  | -0.92  | 0.69   | 0.78   | 0.78  | 0.84   | 0.95   |        | -0.39  | 0.41  |        |
| GCcont   | -0.43    | -0.20  | 0.56  | 0.65   | 0.28  | 0.26   | 0.24   | 0.36  | 0.20   | 0.18   | -0.19  | -0.45  | -0.62 | 0.01   | -0.24  | -0.39  |        | 0.48  | 0.82   |
| Ccont    | -0.71    | -0.95  | -0.46 | -0.13  | -0.32 | -0.54  | -0.53  | -0.35 | -0.55  | -0.54  | 0.28   | 0.20   | 0.07  | 0.60   | 0.33   | 0.41   | 0.48   |       | _1     |