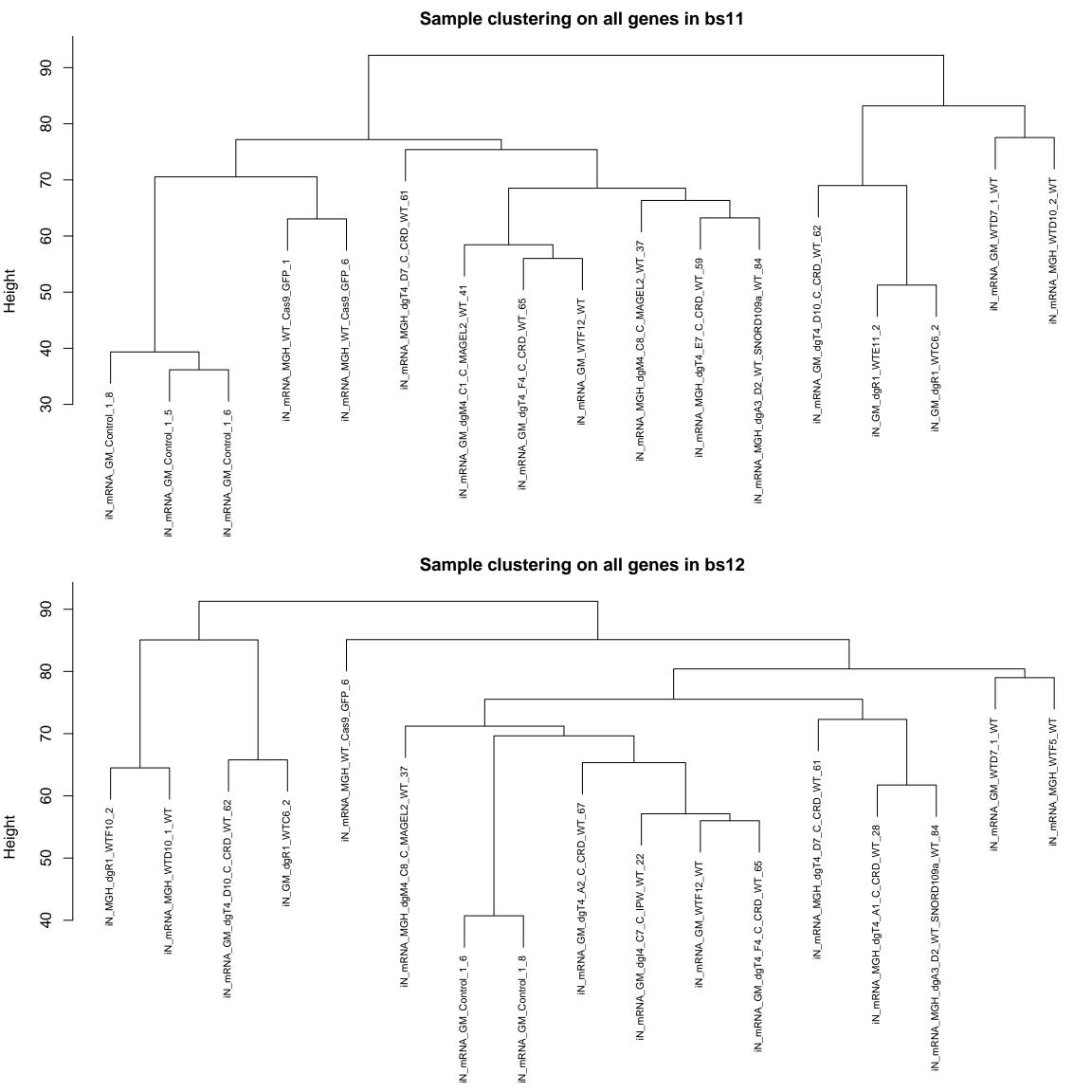
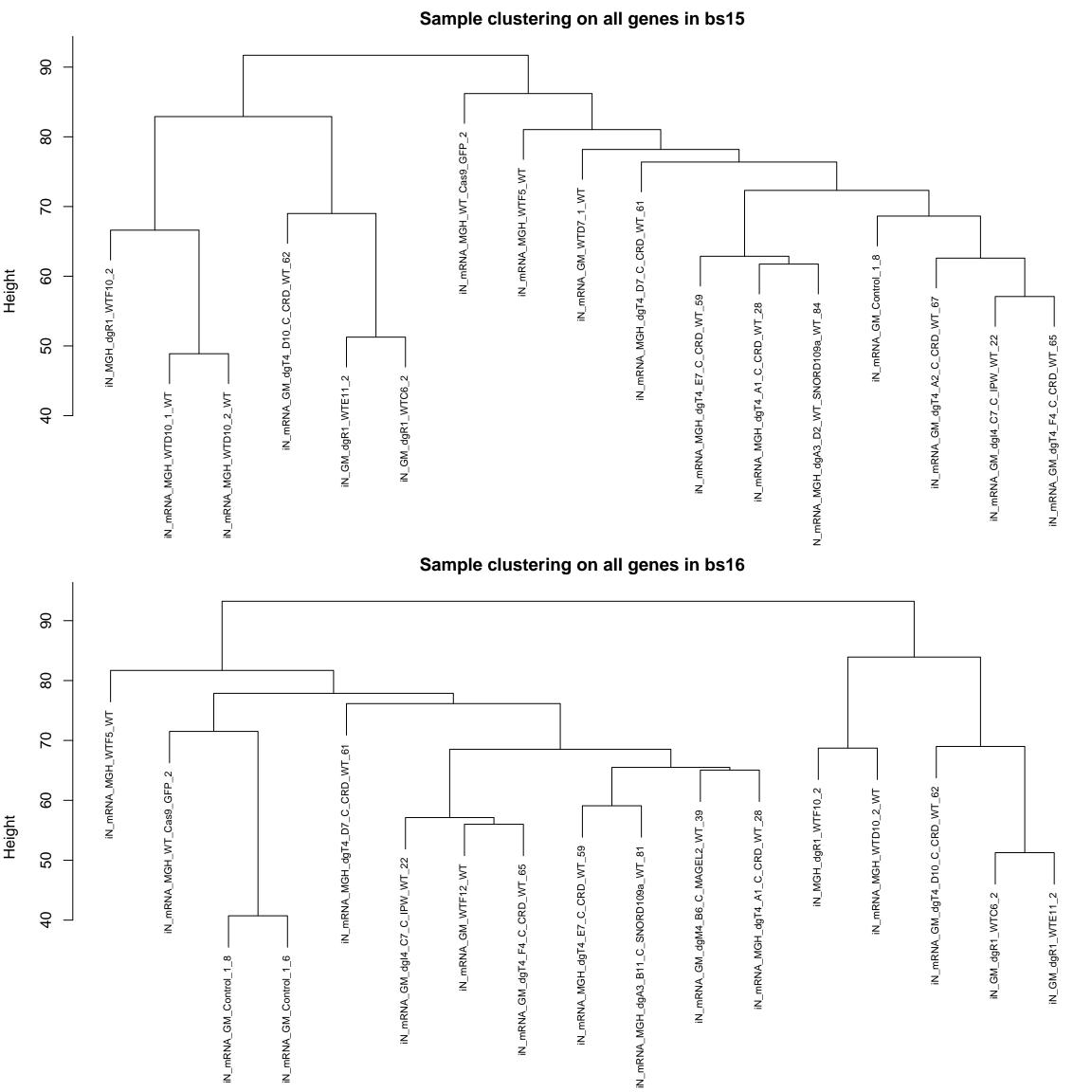


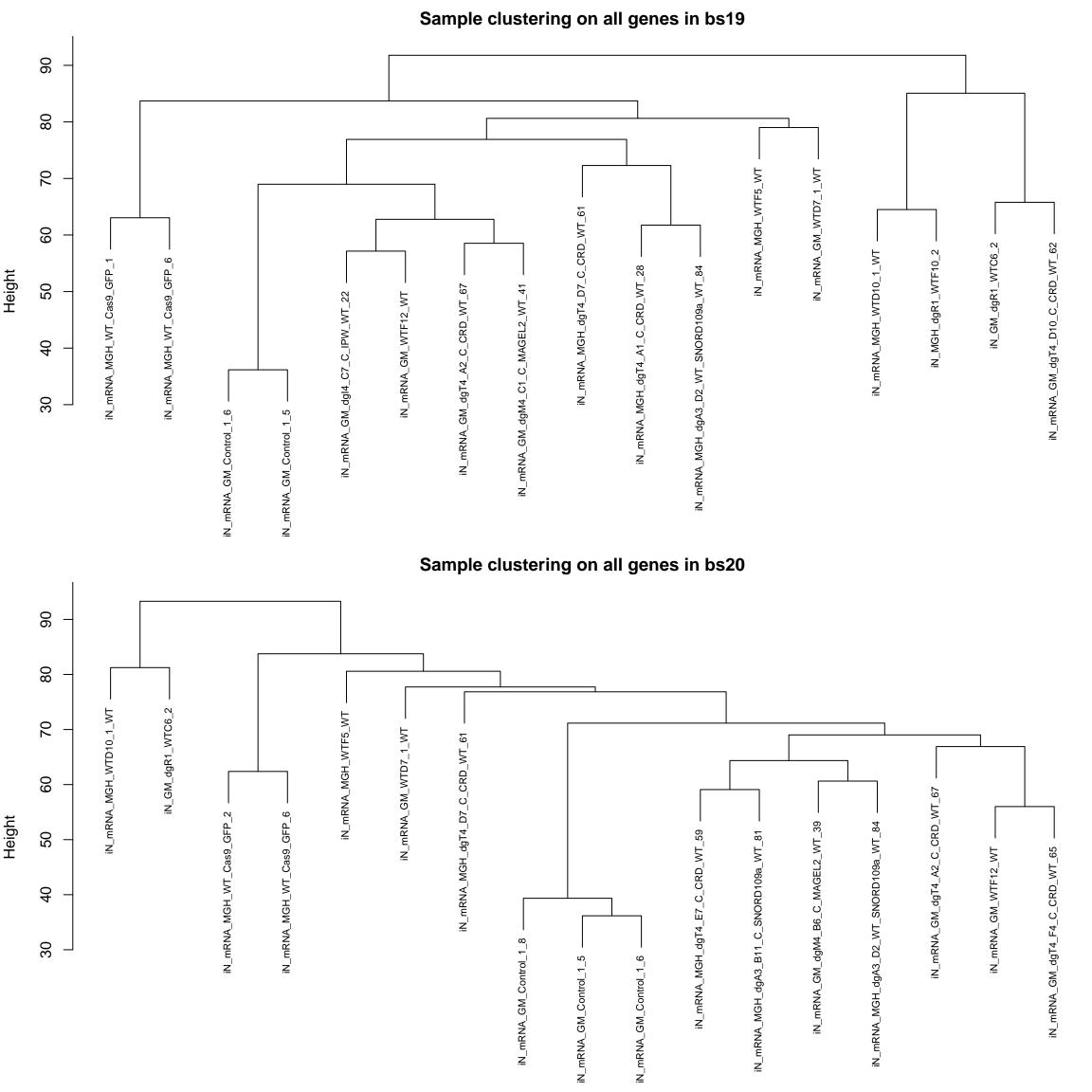
#### Sample clustering on all genes in bs9 90 80 IN\_mRNA\_MGH\_WTF5\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 9 iN\_MGH\_dgR1\_WTF10\_2 Height iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 20 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_GM\_dgR1\_WTE11\_2 iN\_GM\_dgR1\_WTC6\_2 40 IN\_mRNA\_MGH\_WTD10\_1\_WT IN\_mRNA\_MGH\_WTD10\_2\_WT 30 iN\_mRNA\_GM\_Control\_1\_5 iN\_mRNA\_GM\_Control\_1\_8 Sample clustering on all genes in bs10 100 90 iN\_MGH\_dgR1\_WTF10\_2 iN\_GM\_dgR1\_WTC6\_2 80 20 IN\_mRNA\_GM\_WTD7\_1\_WT IN\_mRNA\_MGH\_WTF5\_WT iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 Height iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 20 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 40 30 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5

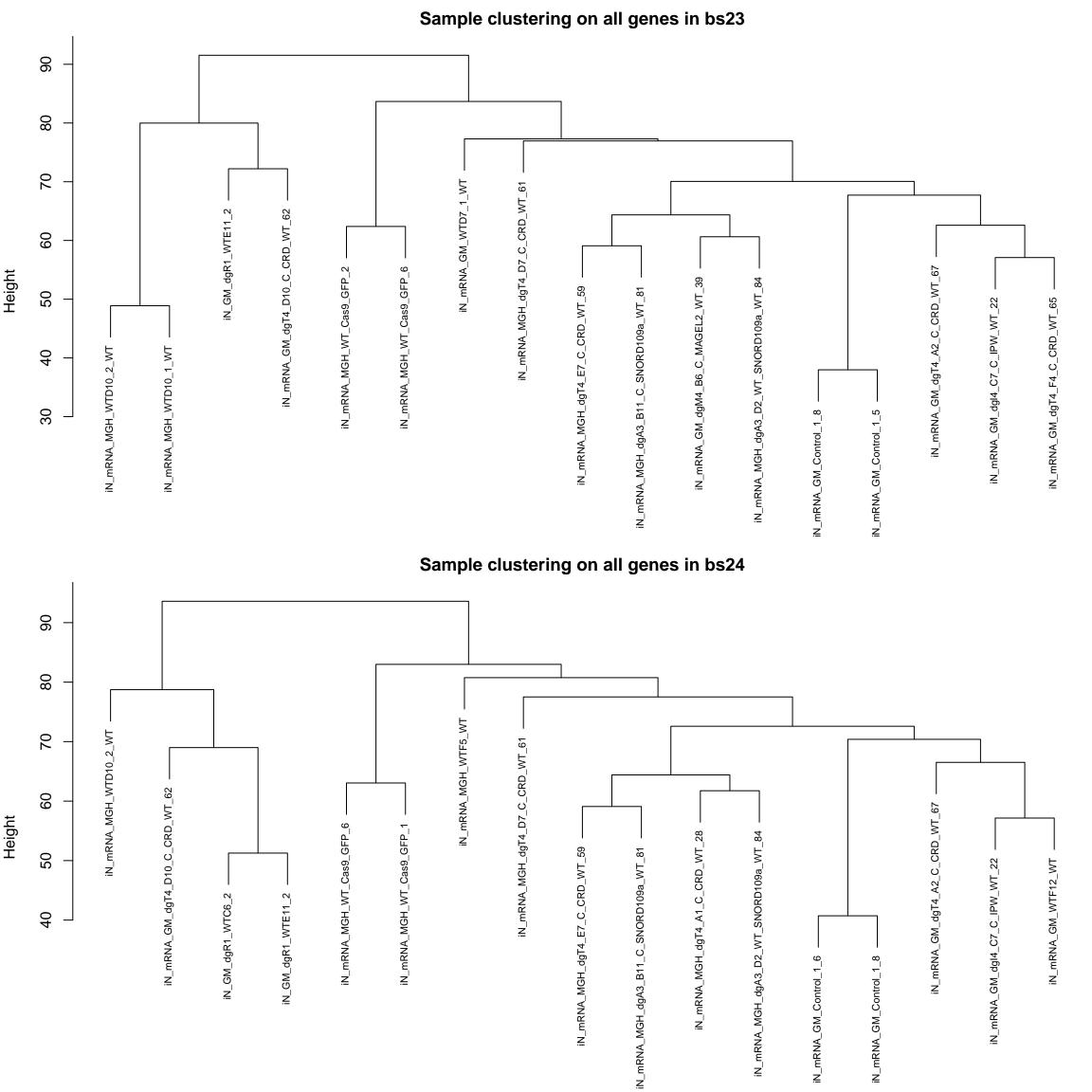


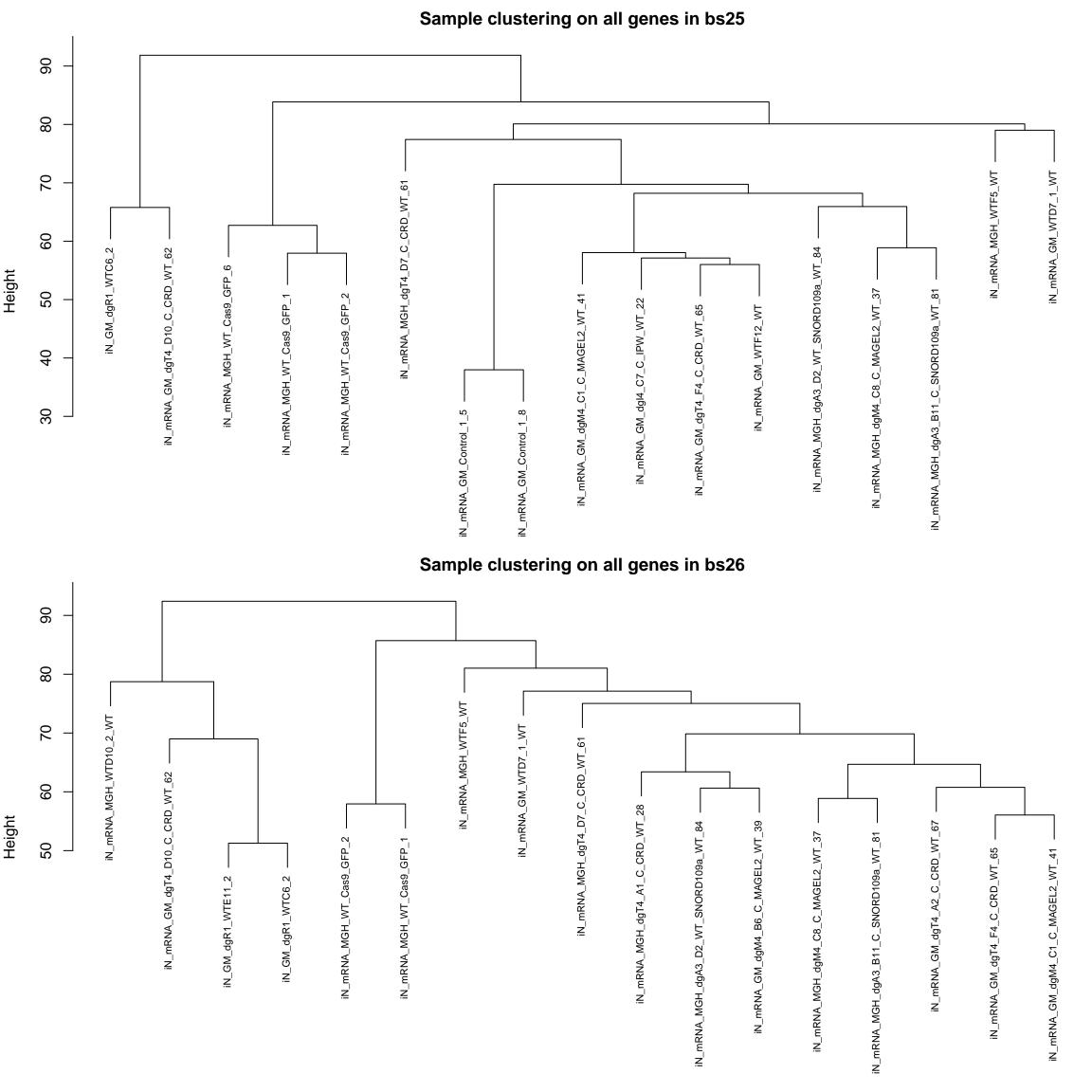
#### Sample clustering on all genes in bs13 90 80 20 IN\_mRNA\_GM\_WTD7\_1\_WT IN\_mRNA\_MGH\_WTD10\_2\_WT iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 9 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 Height iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 20 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_WTF12\_WT iN\_GM\_dgR1\_WTC6\_2 iN\_GM\_dgR1\_WTE11\_2 40 iN\_mRNA\_GM\_Control\_1\_8 30 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs14 90 80 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 IN\_mRNA\_MGH\_WTF5\_WT iN\_mRNA\_GM\_WTD7\_1\_WT IN\_mRNA\_MGH\_WTD10\_1\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_GM\_dgR1\_WTE11\_2 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 9 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 Height IN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 20 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 40 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_5

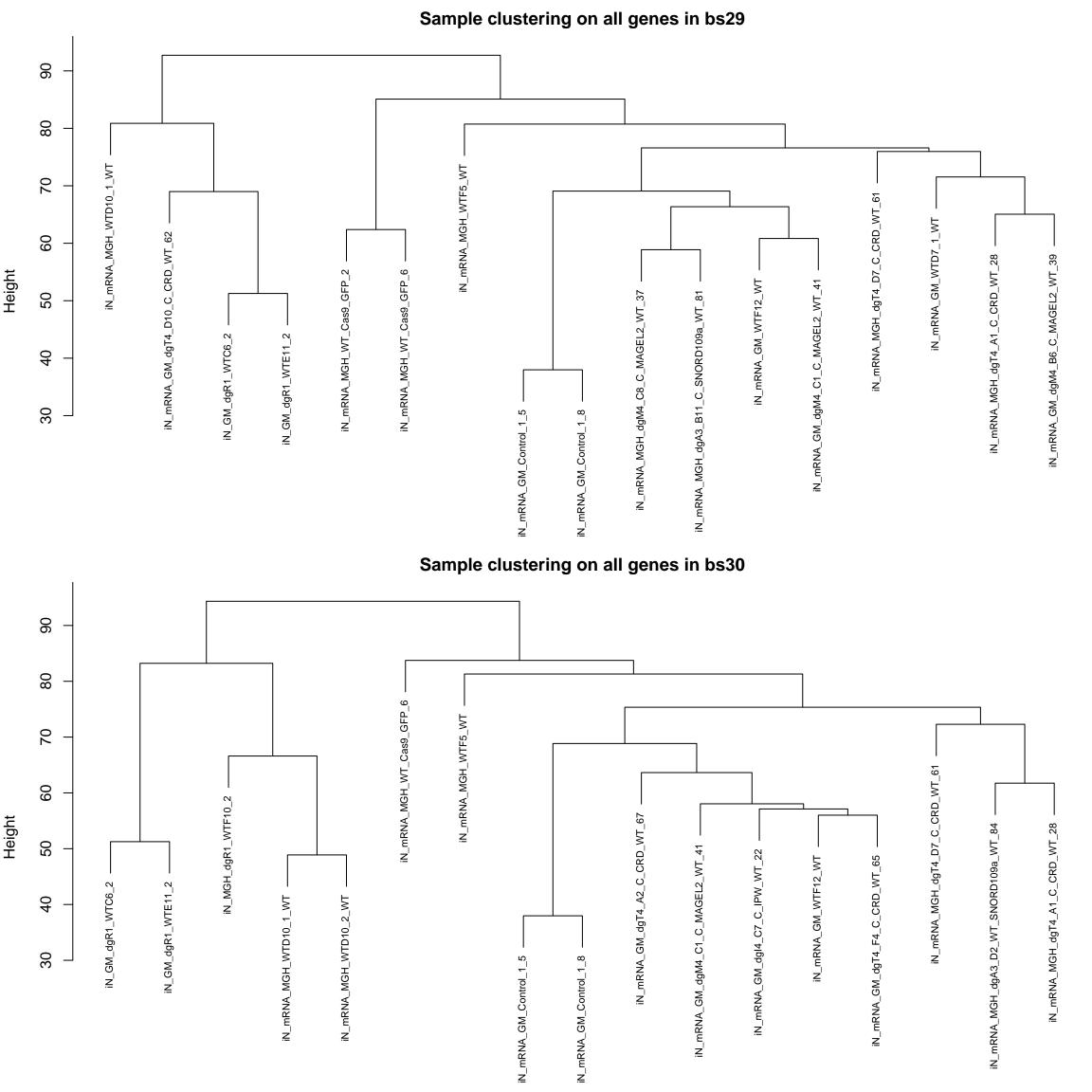


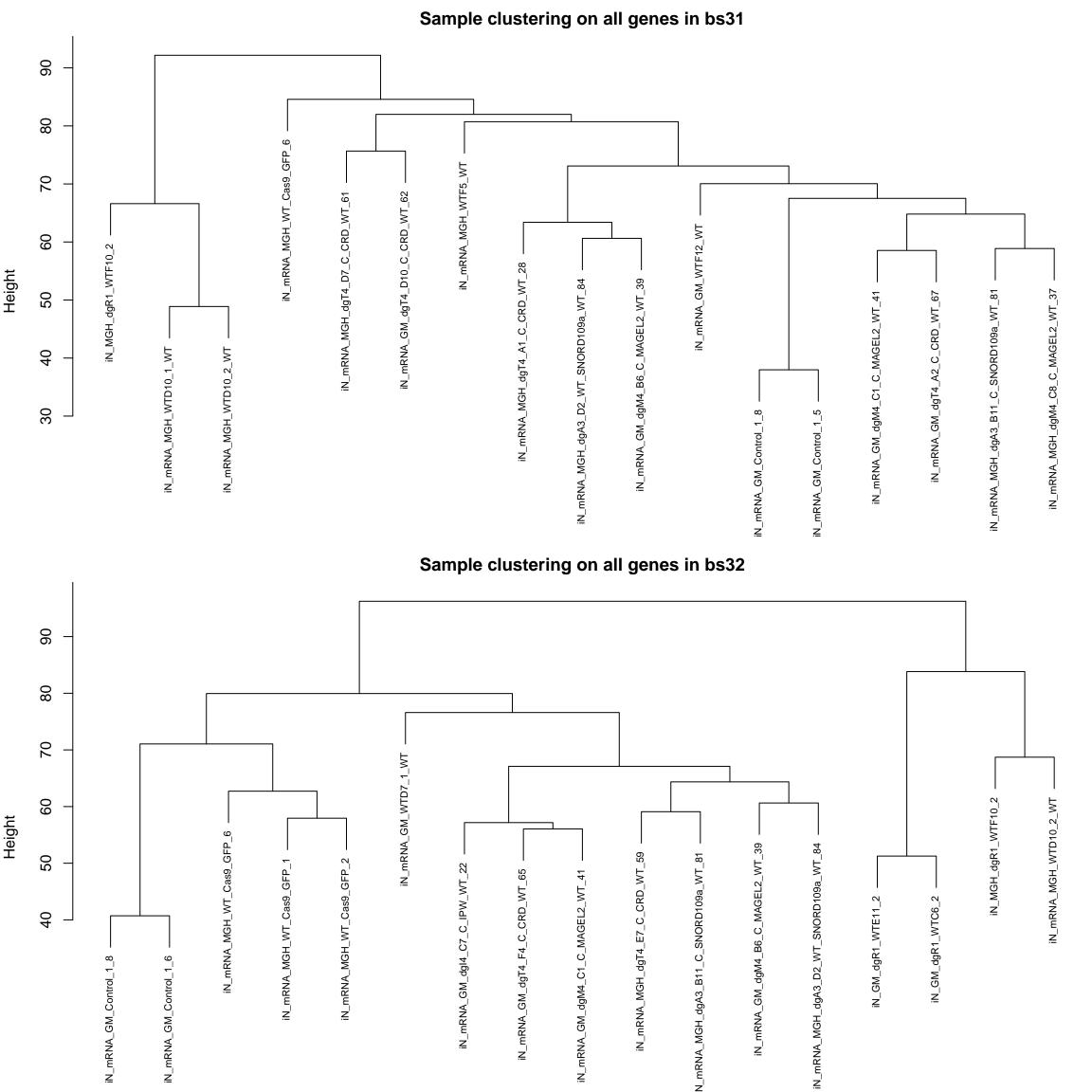
## Sample clustering on all genes in bs17 90 80 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 IN\_mRNA\_MGH\_WTF5\_WT 20 IN\_mRNA\_GM\_WTD7\_1\_WT IN\_mRNA\_MGH\_WTD10\_2\_WT iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_GM\_dgR1\_WTE11\_2 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 9 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 IN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 Height iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 20 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 IN\_mRNA\_GM\_WTF12\_WT 4 30 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs18 90 80 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 iN\_MGH\_dgR1\_WTF10\_2 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 Height iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 20 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 IN\_mRNA\_MGH\_WTD10\_1\_WT iN\_mRNA\_MGH\_WTD10\_2\_WT 40 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_5





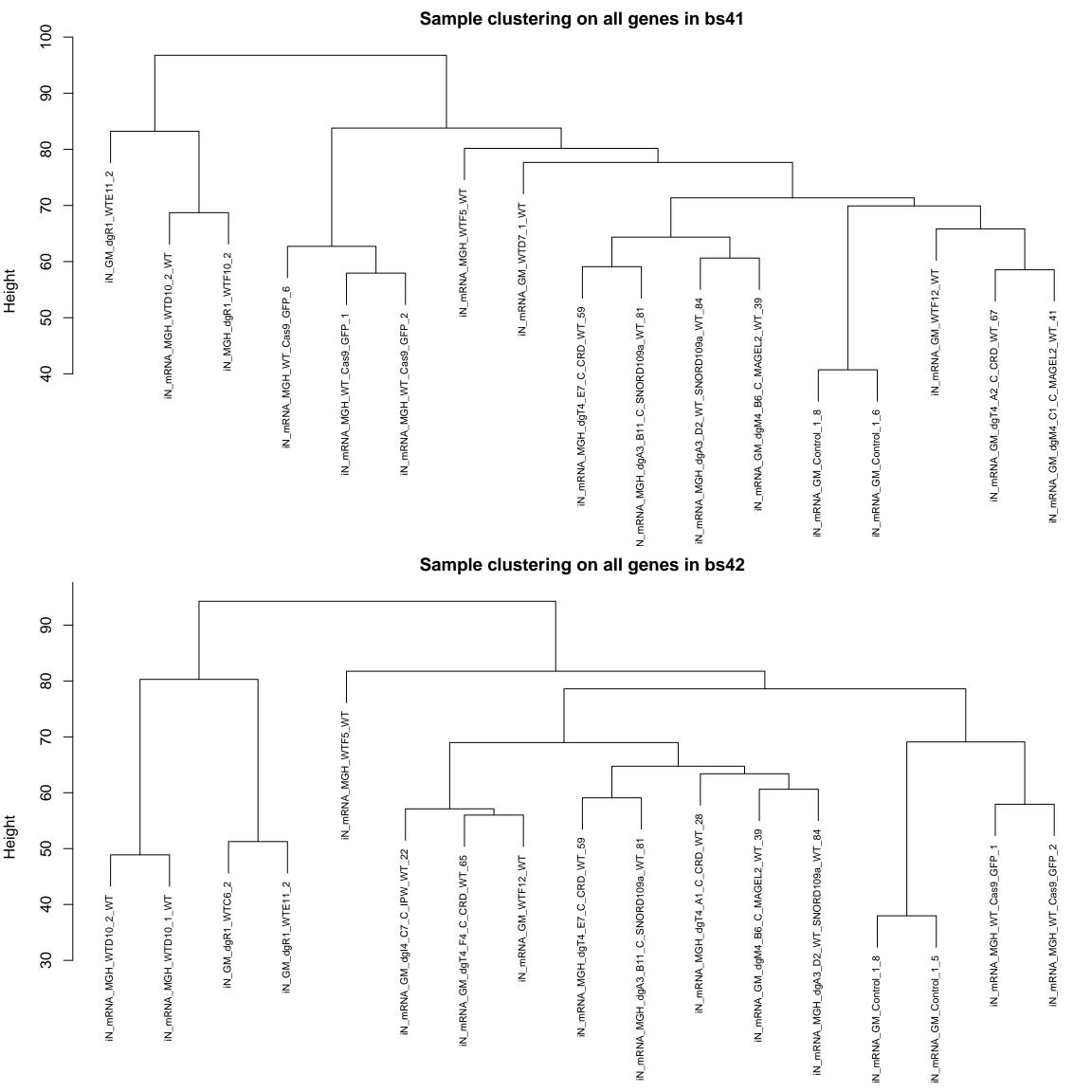


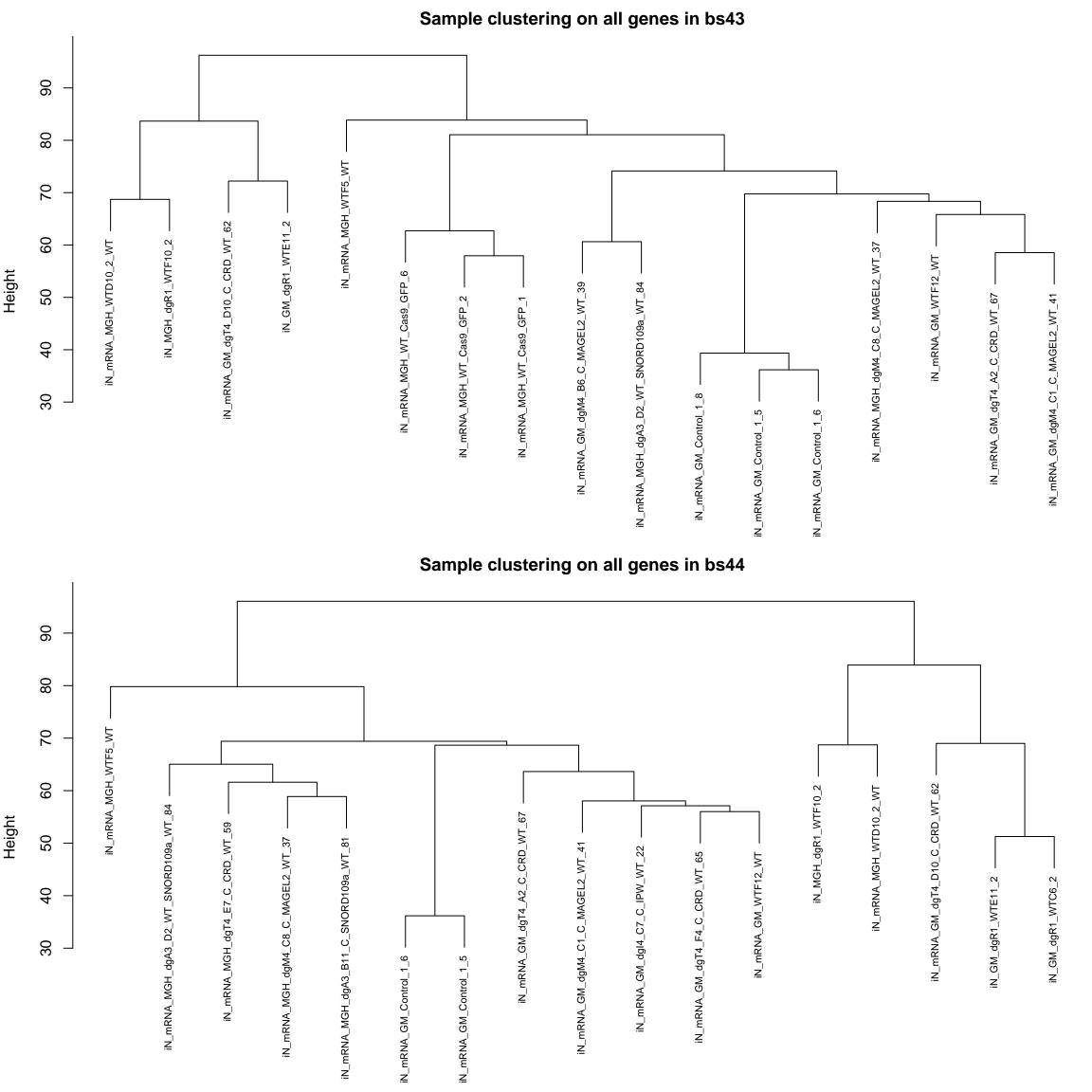


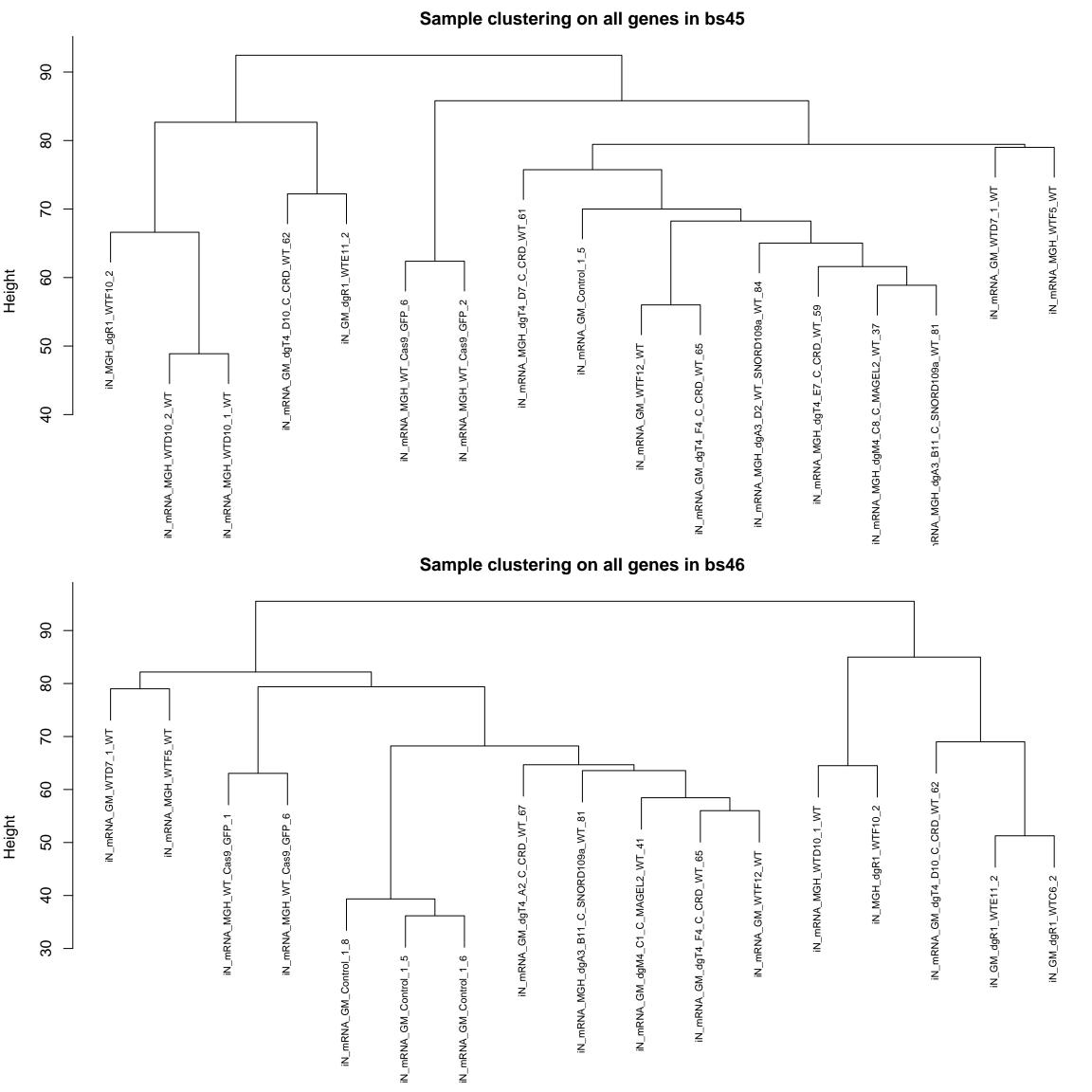


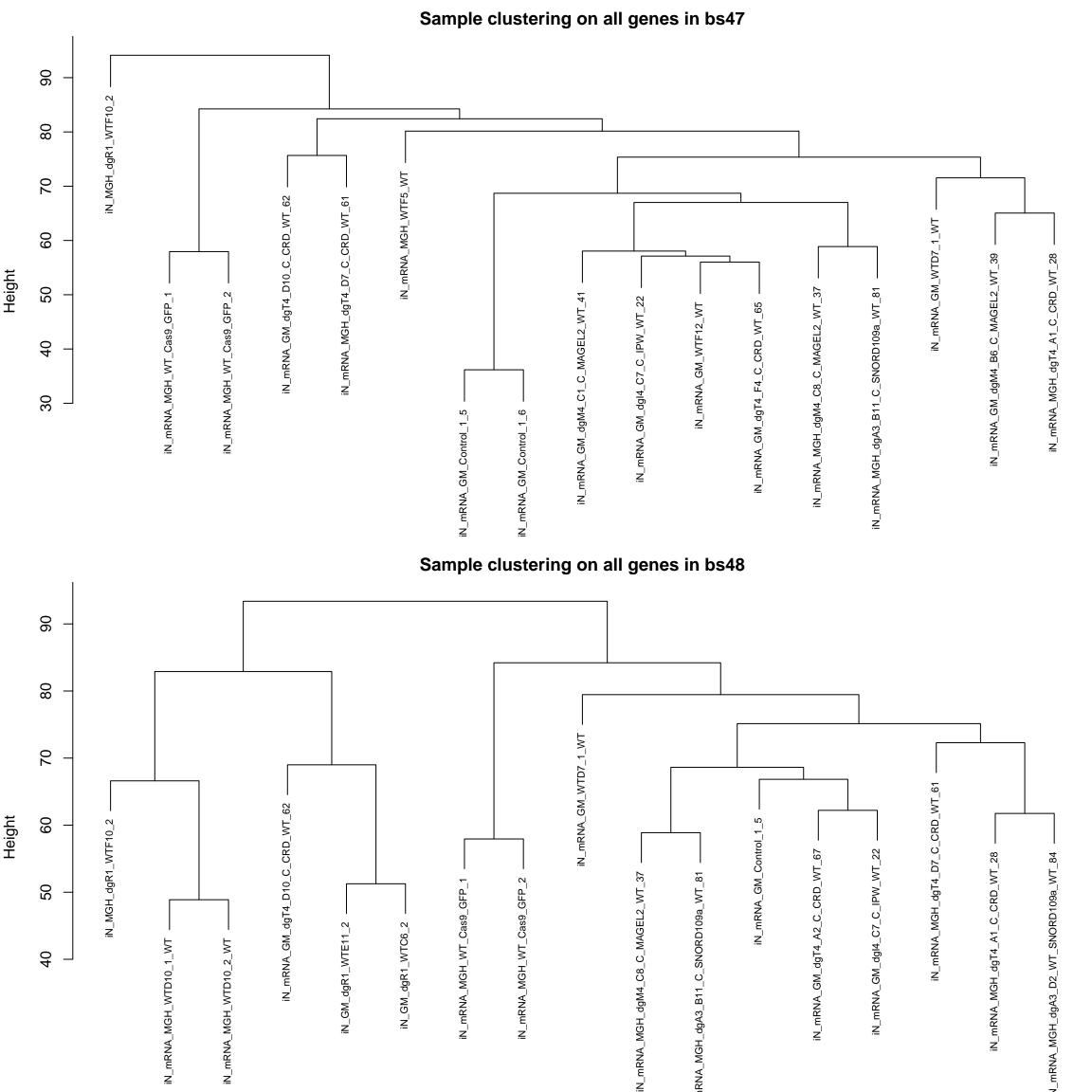
## Sample clustering on all genes in bs33 90 80 IN\_mRNA\_MGH\_WTF5\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 Height iN\_mRNA\_GM\_Control\_1\_6 9 IN\_MGH\_dgR1\_WTF10\_2 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 nRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 20 IN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_GM\_dgR1\_WTC6\_2 iN\_GM\_dgR1\_WTE11\_2 iN\_mRNA\_MGH\_WTD10\_1\_WT IN\_mRNA\_MGH\_WTD10\_2\_WT 40 Sample clustering on all genes in bs34 90 80 70 IN\_mRNA\_GM\_WTD7\_1\_WT IN\_mRNA\_MGH\_WTF5\_WT 09 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 IN\_mRNA\_GM\_WTF12\_WT iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 iN\_GM\_dgR1\_WTC6\_2 iN\_MGH\_dgR1\_WTF10\_2 iN\_mRNA\_MGH\_WTD10\_1\_WT Height iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 20 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 40 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_5

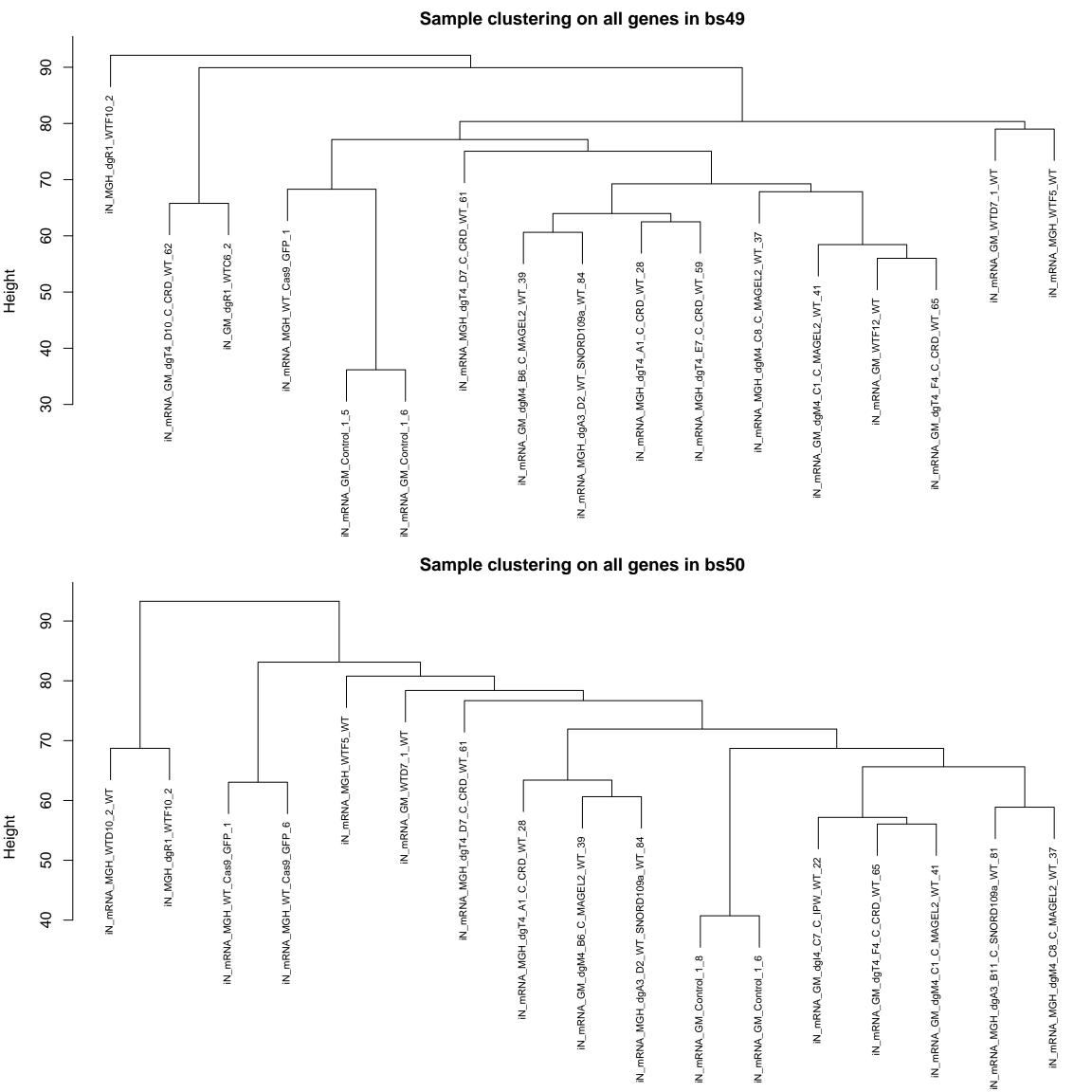
# Sample clustering on all genes in bs35 90 80 IN\_mRNA\_GM\_WTD7\_1\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 iN\_MGH\_dgR1\_WTF10\_2 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 iN\_GM\_dgR1\_WTC6\_2 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 Height iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 20 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 4 IN\_mRNA\_MGH\_WTD10\_1\_WT IN\_mRNA\_MGH\_WTD10\_2\_WT 30 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs36 90 80 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 iN\_GM\_dgR1\_WTE11\_2 IN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 Height 9 iN\_MGH\_dgR1\_WTF10\_2 IN\_mRNA\_GM\_WTF12\_WT iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 IN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 \_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 20 iN\_mRNA\_MGH\_WTD10\_1\_WT iN\_mRNA\_MGH\_WTD10\_2\_WT 40

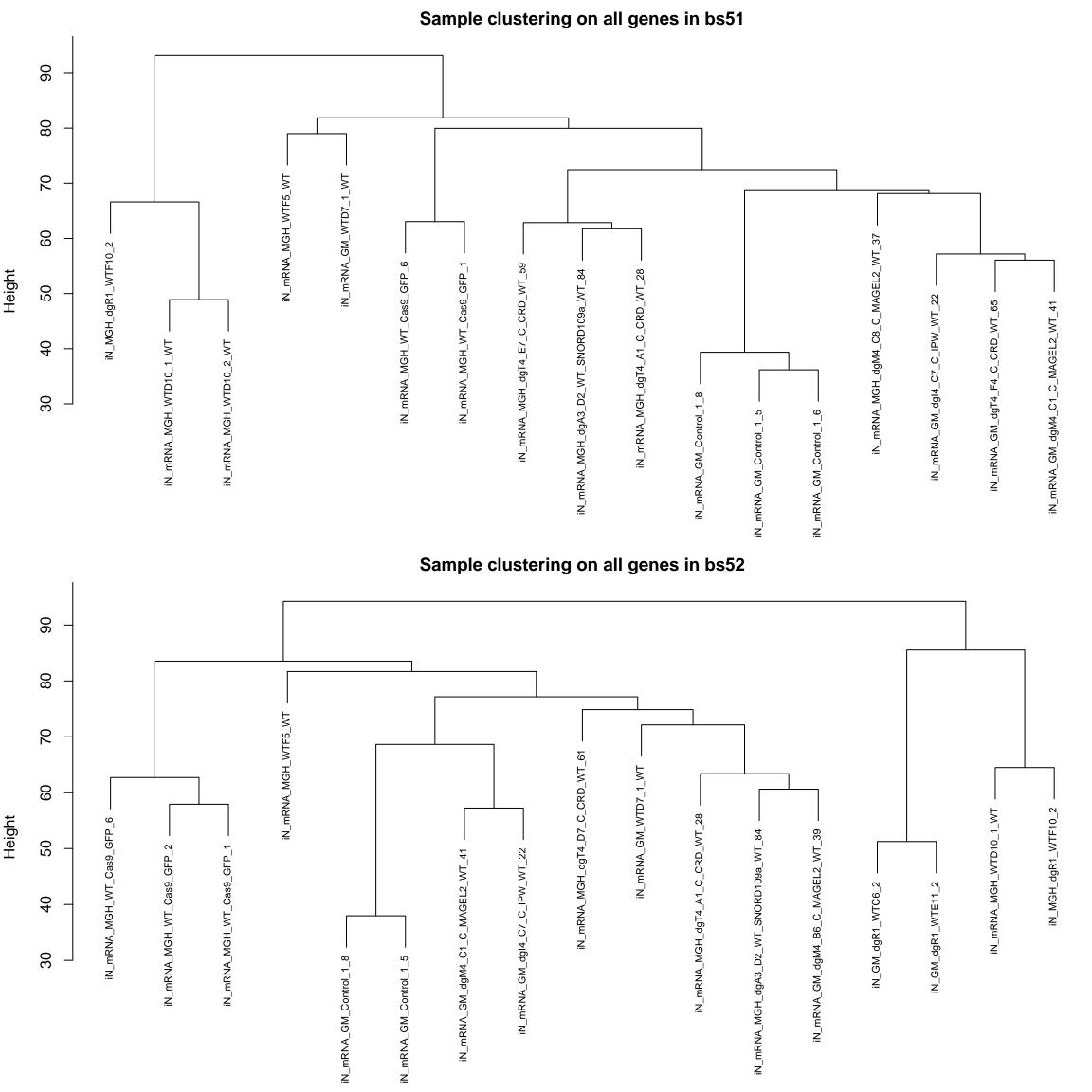


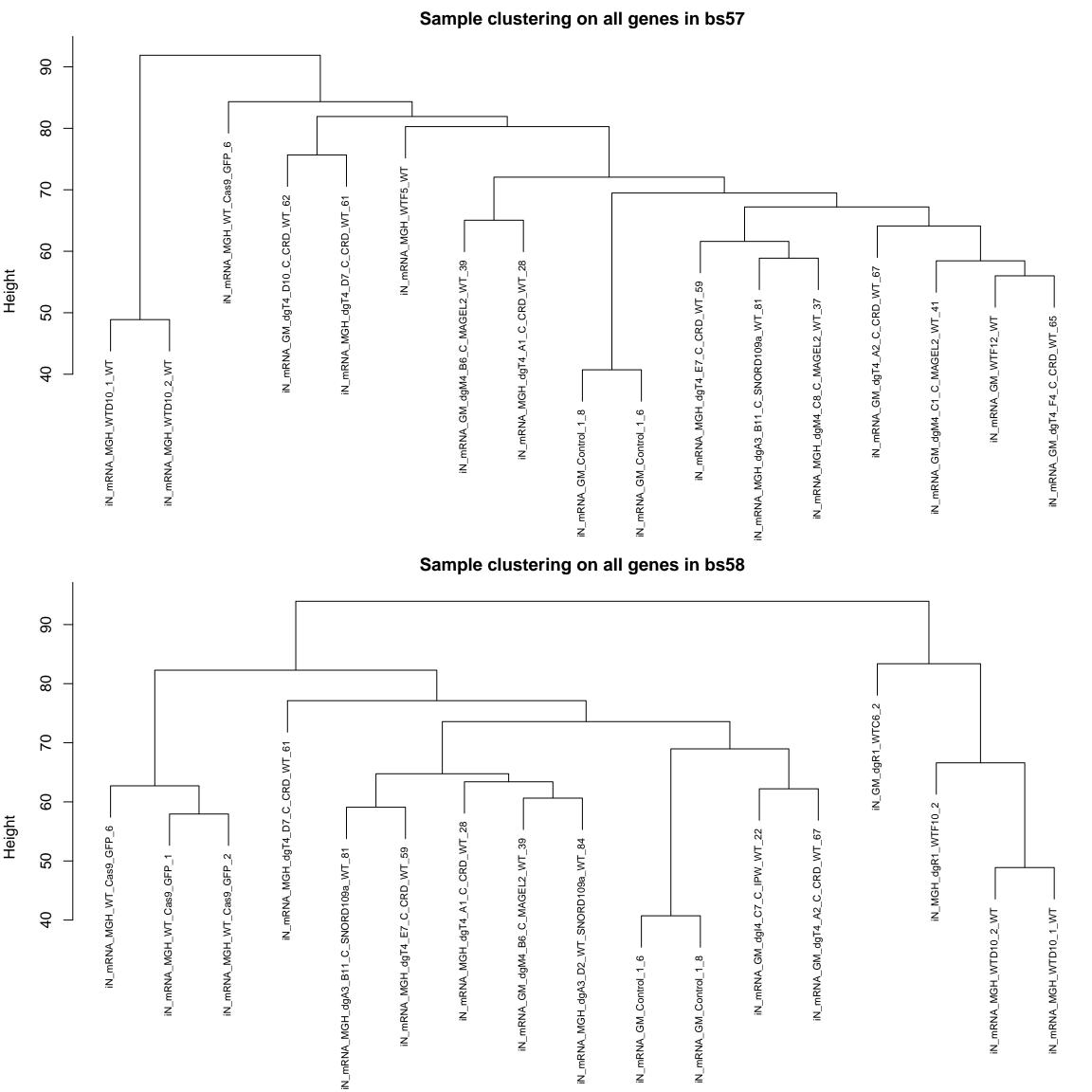






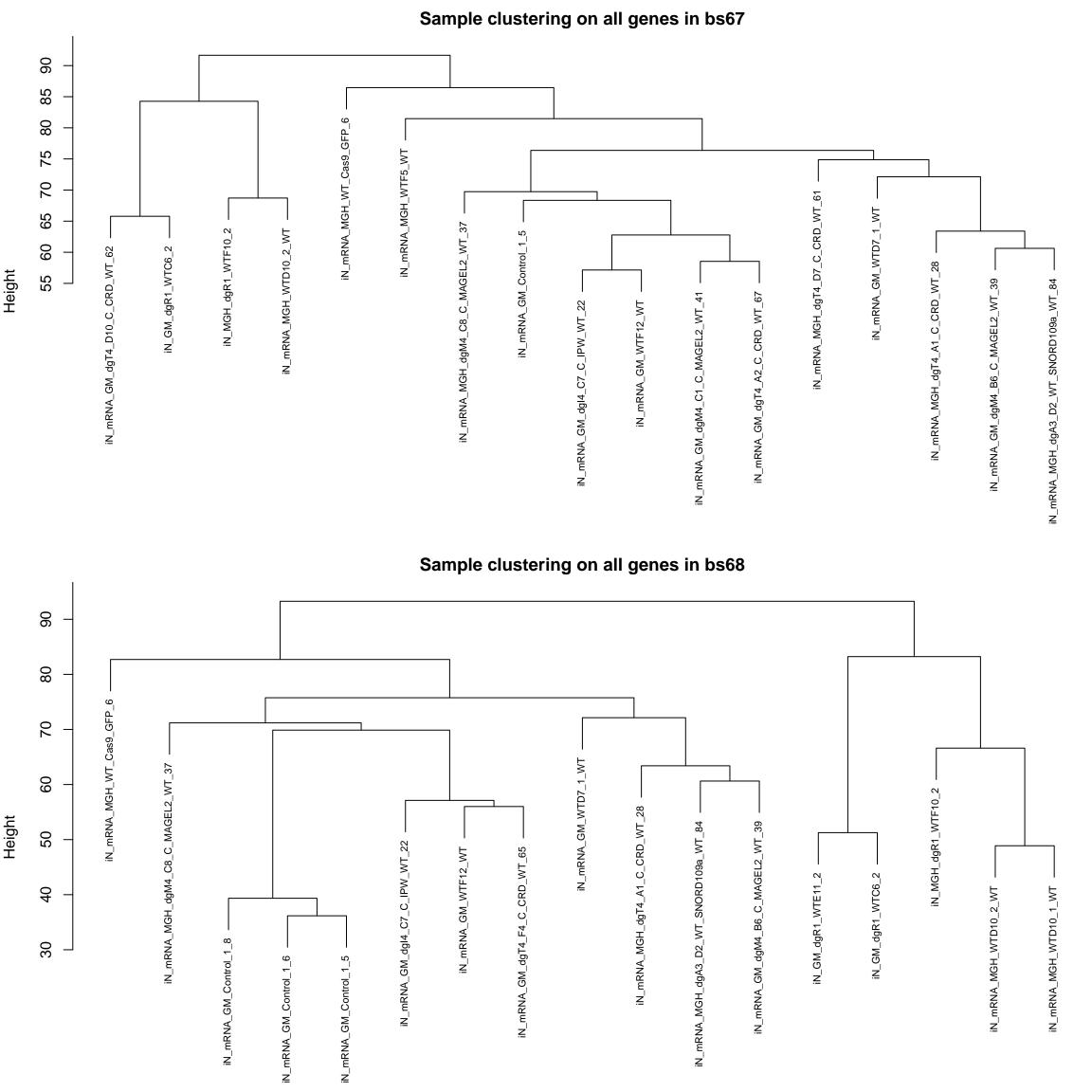


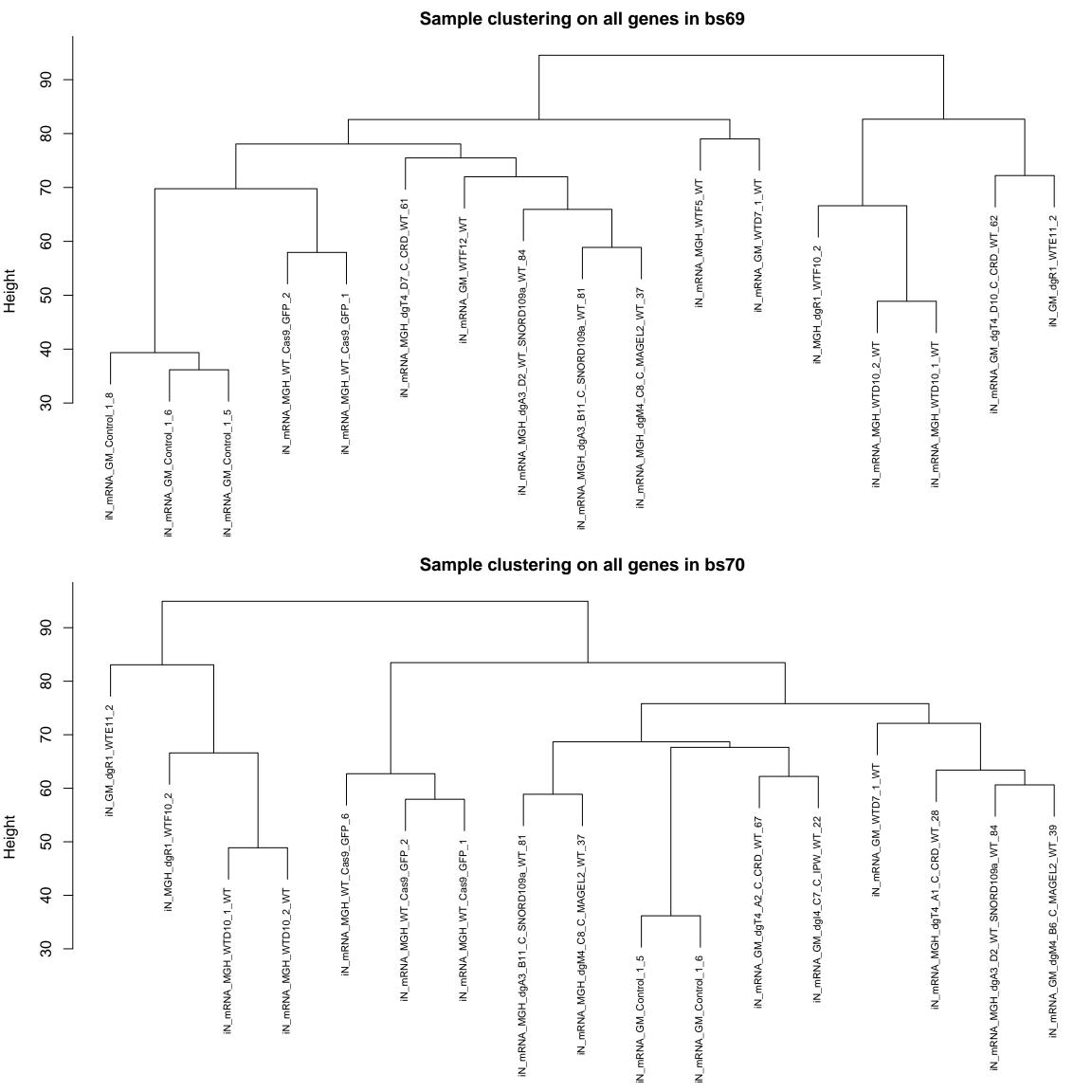


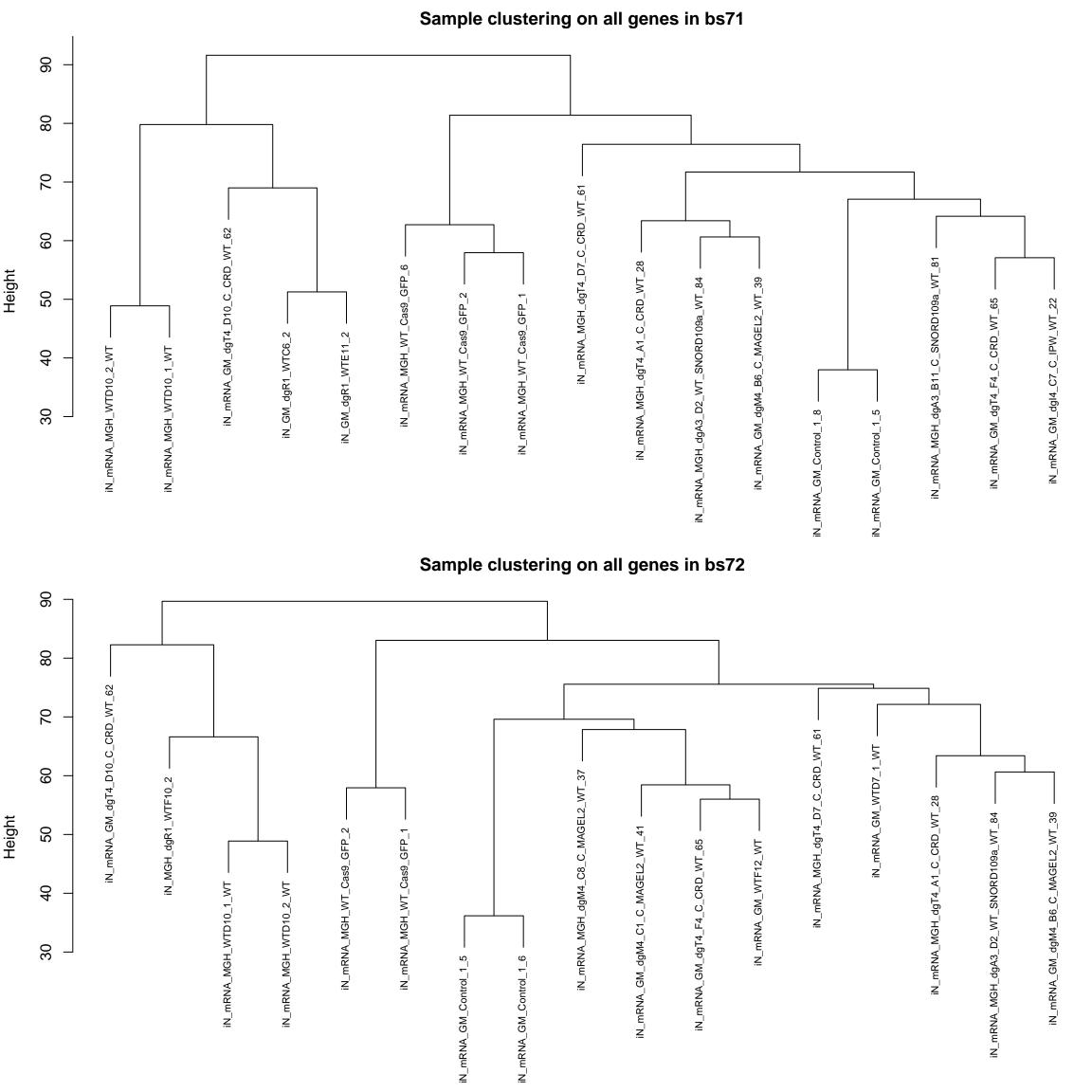


# Sample clustering on all genes in bs59 90 80 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 IN\_mRNA\_MGH\_WTF5\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 IN\_MGH\_dgR1\_WTF10\_2 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 Height iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 20 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 IN\_mRNA\_GM\_WTF12\_WT IN\_mRNA\_MGH\_WTD10\_1\_WT IN\_mRNA\_MGH\_WTD10\_2\_WT 4 30 IN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs60 90 80 IN\_mRNA\_MGH\_WTF5\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 09 IN\_mRNA\_GM\_WTF12\_WT IN\_MGH\_dgR1\_WTF10\_2 IN\_mRNA\_MGH\_WTD10\_1\_WT iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 Height 20 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_GM\_dgR1\_WTC6\_2 iN\_GM\_dgR1\_WTE11\_2

## Sample clustering on all genes in bs63 90 80 IN\_mRNA\_MGH\_WTF5\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 iN\_GM\_dgR1\_WTE11\_2 9 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 IN\_mRNA\_GM\_WTF12\_WT iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 IN\_MGH\_dgR1\_WTF10\_2 IN\_mRNA\_MGH\_WTD10\_1\_WT iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 Height iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 20 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 IN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 4 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs64 90 80 20 IN\_mRNA\_GM\_WTD7\_1\_WT iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_MGH\_dgR1\_WTF10\_2 9 IN\_mRNA\_MGH\_WTD10\_2\_WT Height iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 20 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 IN\_mRNA\_GM\_WTF12\_WT 40 iN\_mRNA\_GM\_Control\_1\_6 IN\_mRNA\_GM\_Control\_1\_8

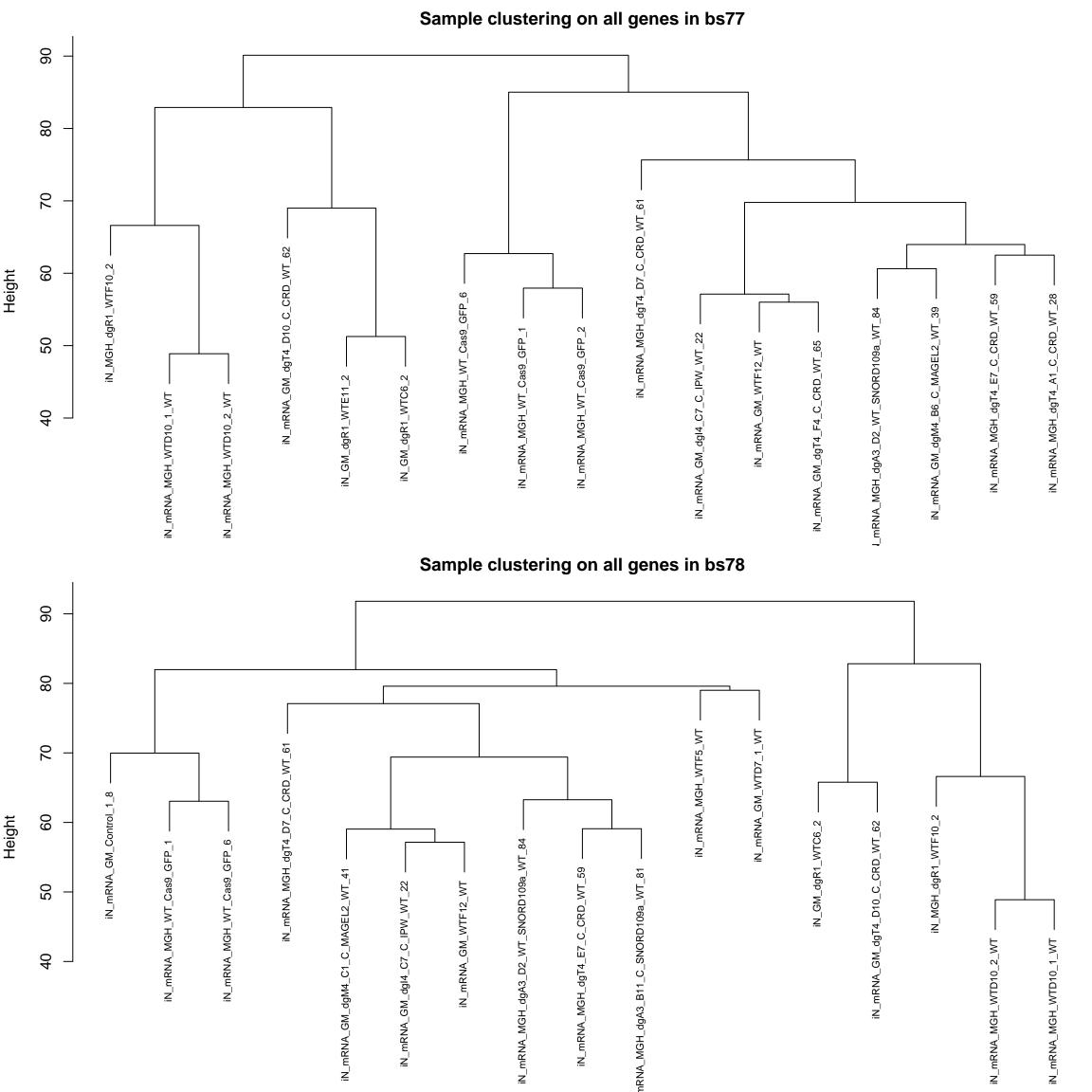


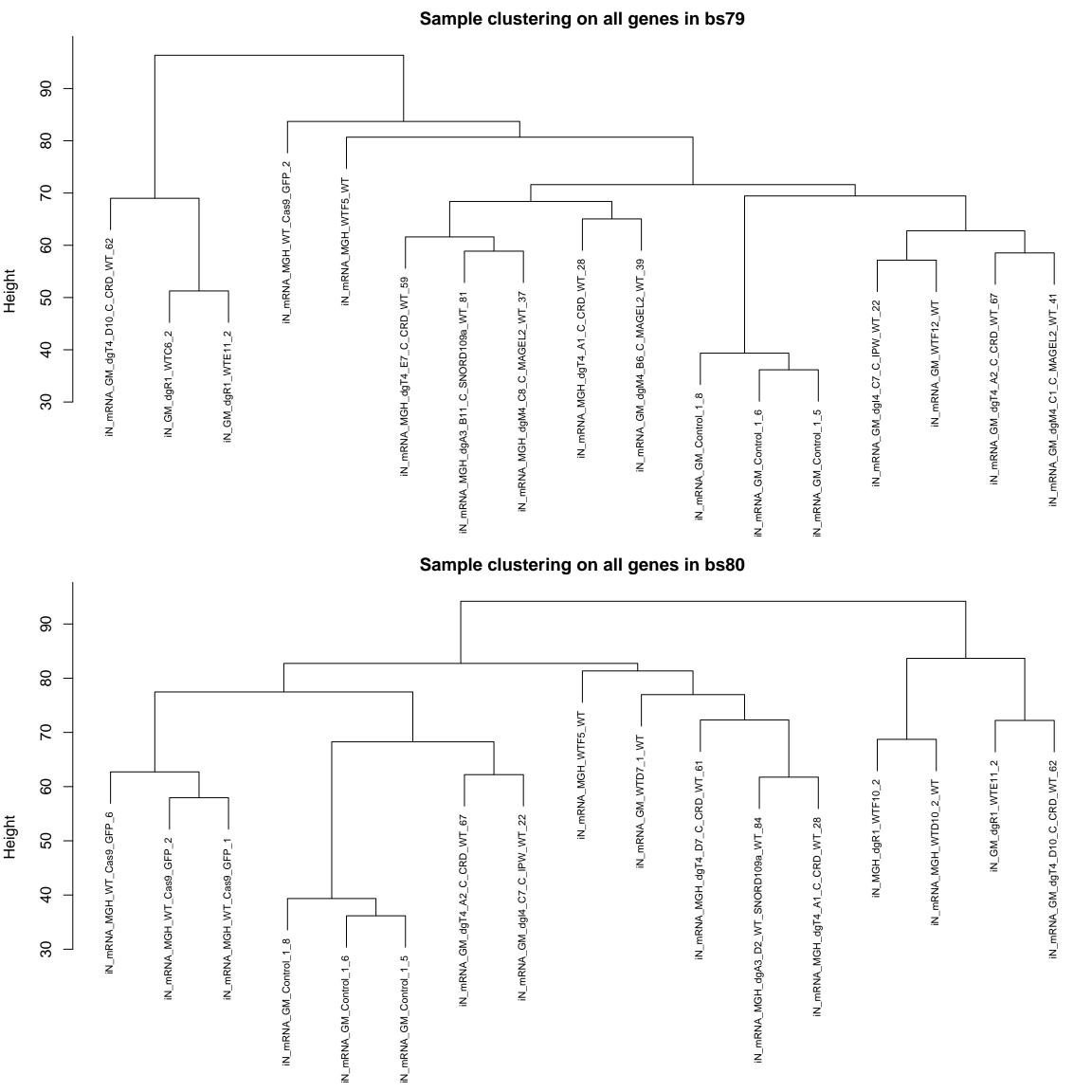


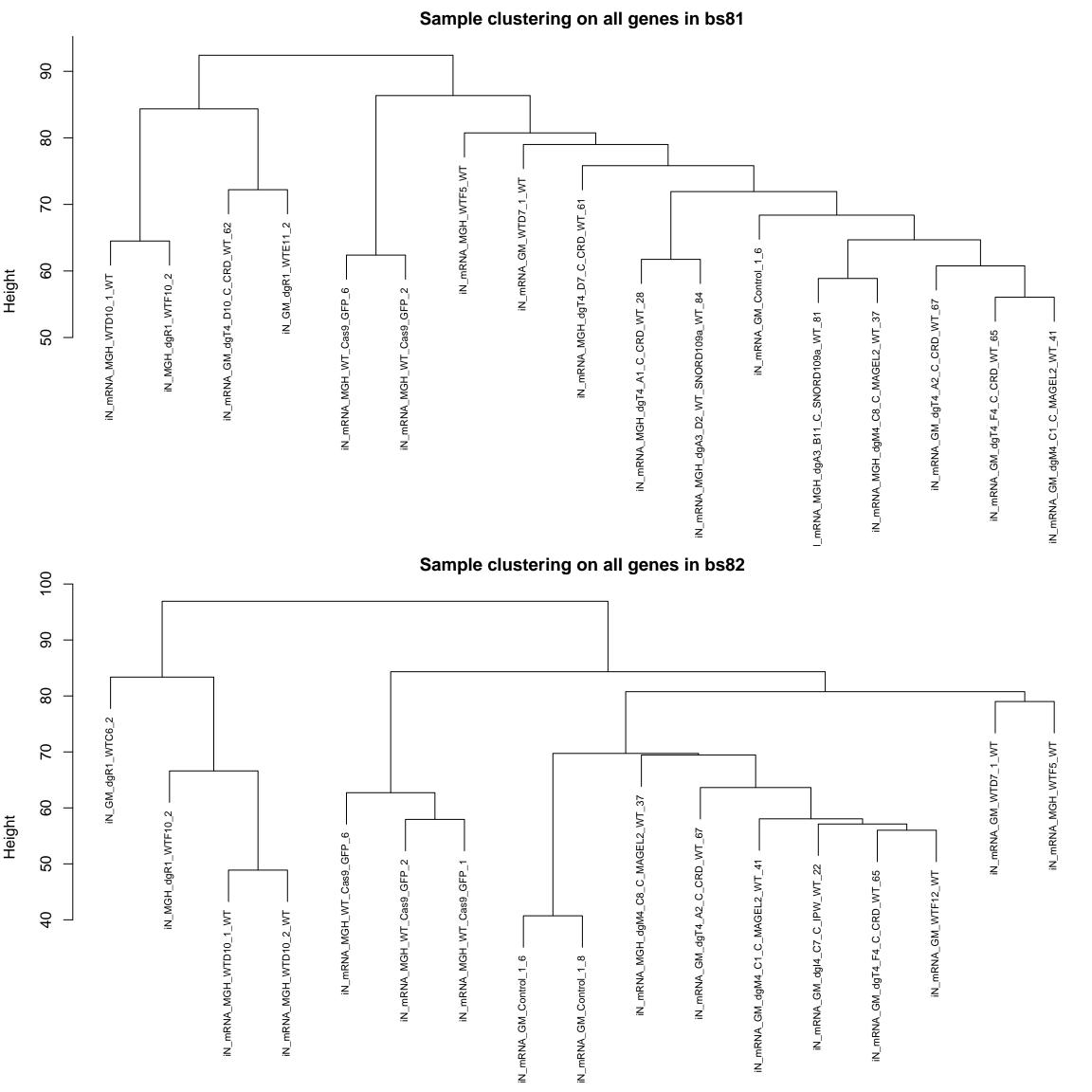


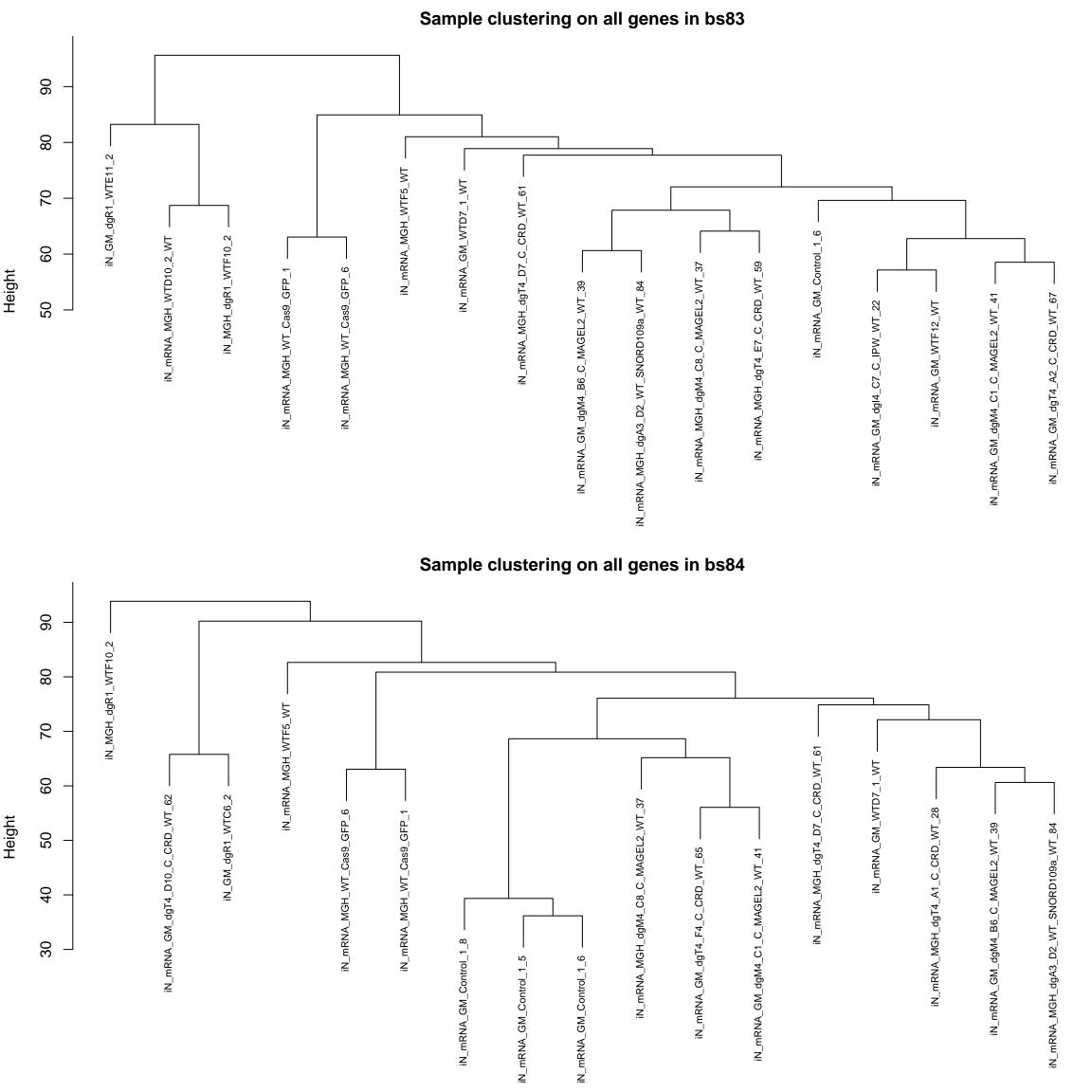
## Sample clustering on all genes in bs73 90 80 IN\_mRNA\_MGH\_WTF5\_WT iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 70 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 IN\_mRNA\_GM\_WTD7\_1\_WT 9 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 IN\_mRNA\_GM\_WTF12\_WT iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 Height iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 20 IN\_mRNA\_MGH\_WTD10\_2\_WT IN\_mRNA\_MGH\_WTD10\_1\_WT 4 30 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs74 90 80 iN\_GM\_dgR1\_WTE11\_2 IN\_mRNA\_MGH\_WTF5\_WT 20 9 IN\_mRNA\_MGH\_WTD10\_1\_WT IN\_MGH\_dgR1\_WTF10\_2 Height iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 IN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 in\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 20 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 40 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_5

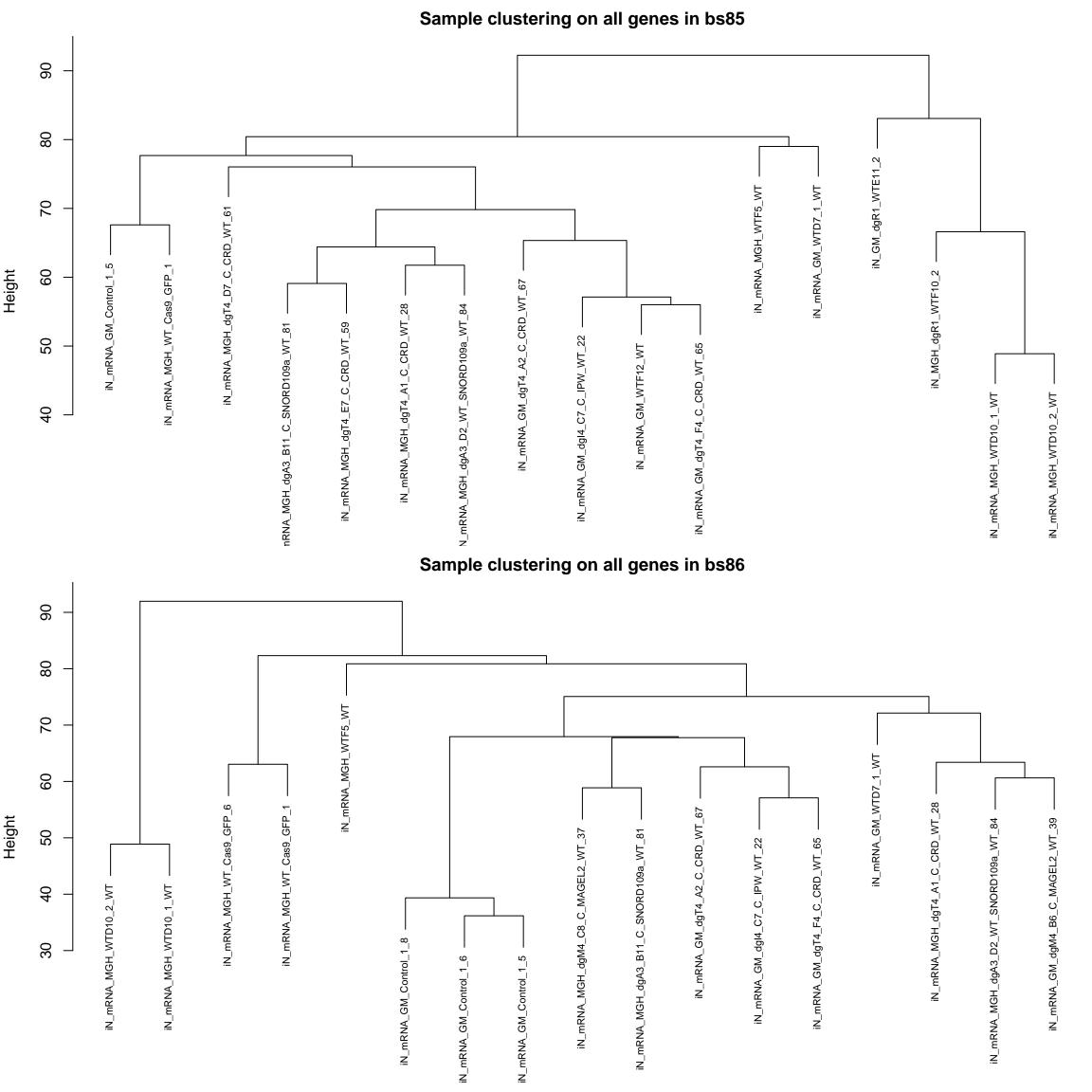
## Sample clustering on all genes in bs75 90 80 IN\_mRNA\_MGH\_WTF5\_WT 20 iN\_mRNA\_GM\_WTD7\_1\_WT iN\_mRNA\_GM\_WTF12\_WT 9 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 iN\_MGH\_dgR1\_WTF10\_2 IN\_mRNA\_MGH\_WTD10\_2\_WT IN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 Height iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 20 iN\_GM\_dgR1\_WTE11\_2 iN\_GM\_dgR1\_WTC6\_2 40 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs76 90 80 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 20 iN\_mRNA\_GM\_WTD7\_1\_WT iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 iN\_GM\_dgR1\_WTE11\_2 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 9 iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 Height iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 20 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 IN\_mRNA\_GM\_WTF12\_WT iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 IN\_mRNA\_MGH\_WTD10\_2\_WT iN\_mRNA\_MGH\_WTD10\_1\_WT 40 30 iN\_mRNA\_GM\_Control\_1\_5 iN\_mRNA\_GM\_Control\_1\_6

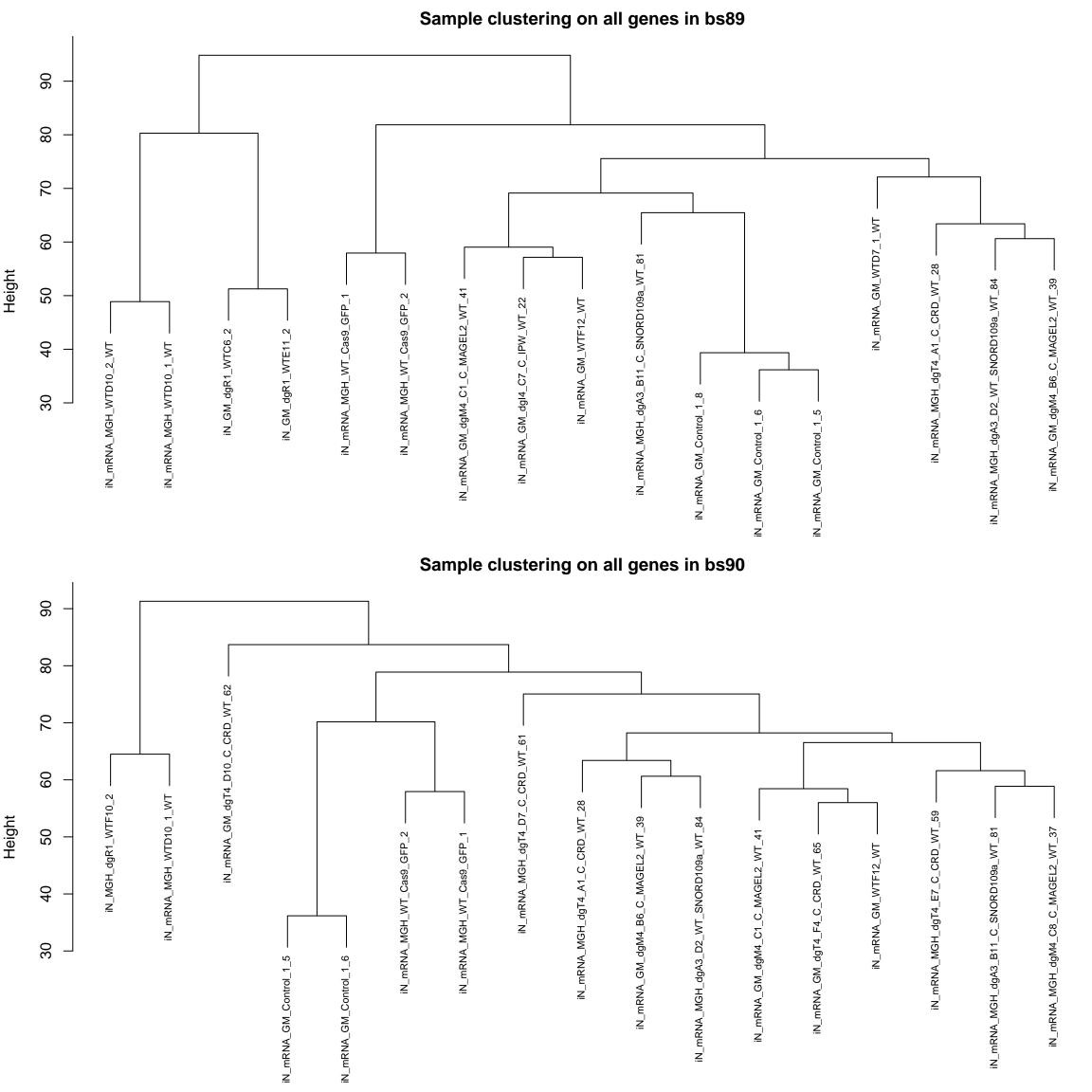


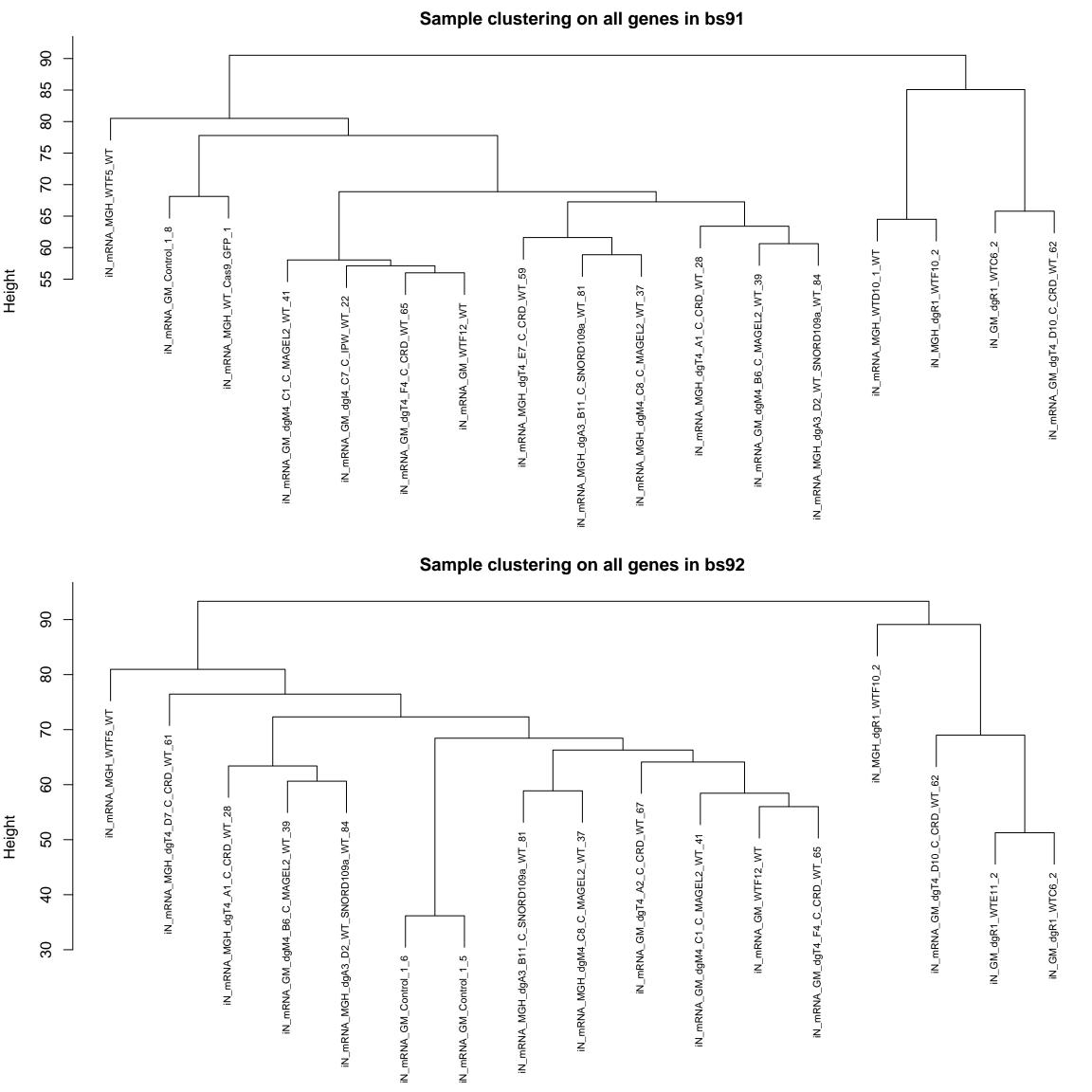




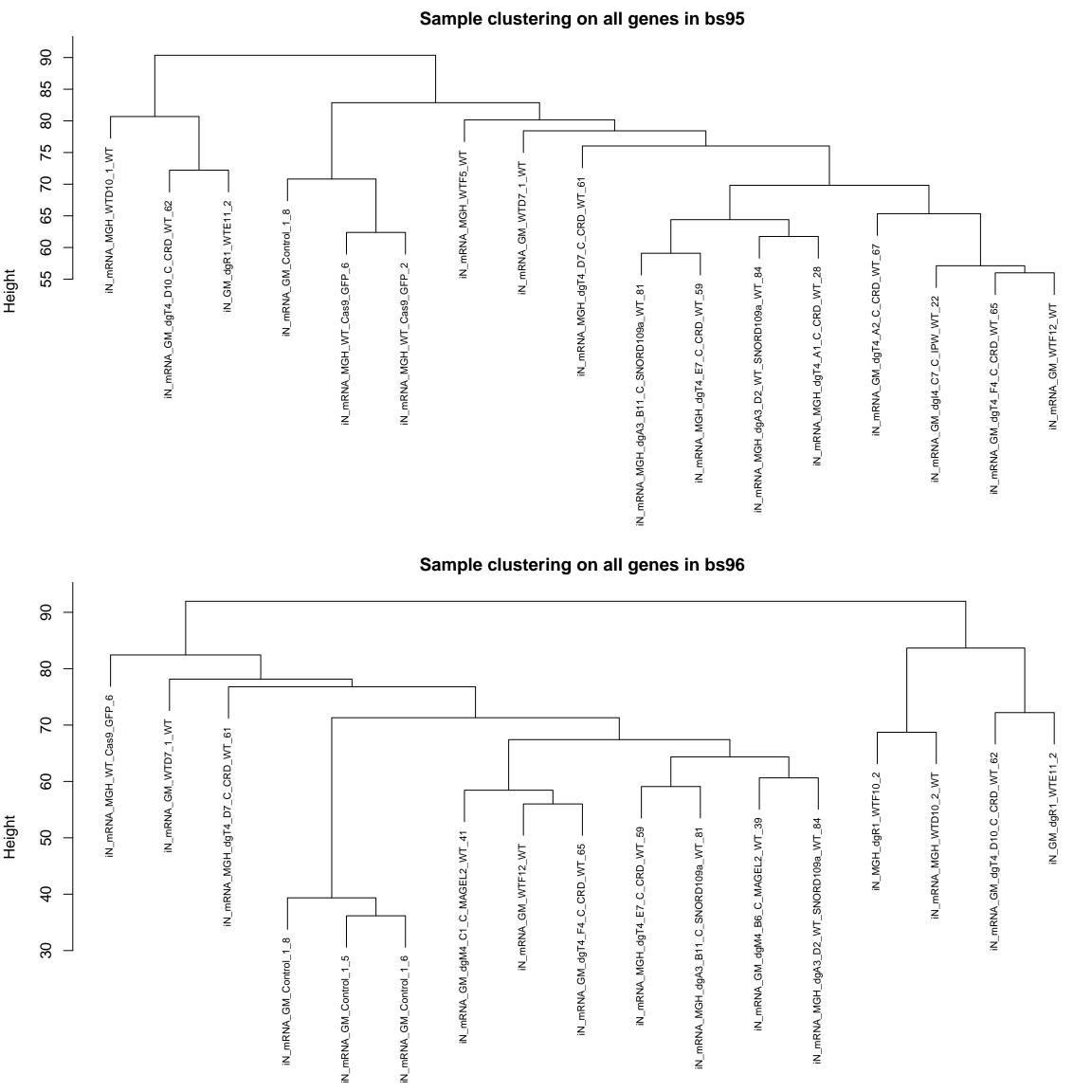








## Sample clustering on all genes in bs93 90 80 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 IN\_MGH\_dgR1\_WTF10\_2 IN\_mRNA\_MGH\_WTD10\_2\_WT iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 Height 20 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 IN\_mRNA\_GM\_WTF12\_WT iN\_GM\_dgR1\_WTE11\_2 iN\_GM\_dgR1\_WTC6\_2 4 30 iN\_mRNA\_GM\_Control\_1\_6 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs94 90 80 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 20 IN\_mRNA\_GM\_WTD7\_1\_WT IN\_mRNA\_MGH\_WTF5\_WT iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 iN\_mRNA\_GM\_dgT4\_D10\_C\_CRD\_WT\_62 iN\_MGH\_dgR1\_WTF10\_2 IN\_mRNA\_MGH\_WTD10\_2\_WT iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 iN\_mRNA\_MGH\_dgA3\_D2\_WT\_SNORD109a\_WT\_84 Height 20 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 IN\_mRNA\_GM\_WTF12\_WT iN\_GM\_dgR1\_WTC6\_2 iN\_GM\_dgR1\_WTE11\_2 40 30 iN\_mRNA\_GM\_Control\_1\_5 iN\_mRNA\_GM\_Control\_1\_6



## Sample clustering on all genes in bs99 100 8 80 IN\_mRNA\_MGH\_WTF5\_WT 20 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 IN\_MGH\_dgR1\_WTF10\_2 Height iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 20 iN\_mRNA\_MGH\_dgA3\_B11\_C\_SNORD109a\_WT\_81 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_1 iN\_mRNA\_GM\_dgT4\_F4\_C\_CRD\_WT\_65 IN\_mRNA\_GM\_WTF12\_WT iN\_GM\_dgR1\_WTC6\_2 iN\_GM\_dgR1\_WTE11\_2 40 iN\_mRNA\_MGH\_WTD10\_2\_WT iN\_mRNA\_MGH\_WTD10\_1\_WT 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_5 Sample clustering on all genes in bs100 90 80 iN\_GM\_dgR1\_WTC6\_2 IN\_mRNA\_MGH\_WTF5\_WT 70 iN\_mRNA\_MGH\_dgT4\_D7\_C\_CRD\_WT\_61 9 iN\_mRNA\_MGH\_dgM4\_C8\_C\_MAGEL2\_WT\_37 iN\_mRNA\_GM\_dgM4\_B6\_C\_MAGEL2\_WT\_39 IN\_mRNA\_GM\_WTD7\_1\_WT IN\_mRNA\_MGH\_WTD10\_1\_WT IN\_MGH\_dgR1\_WTF10\_2 Height iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_2 iN\_mRNA\_MGH\_dgT4\_E7\_C\_CRD\_WT\_59 $iN\_mRNA\_MGH\_dgT4\_A1\_C\_CRD\_WT\_28$ iN\_mRNA\_MGH\_WT\_Cas9\_GFP\_6 iN\_mRNA\_GM\_dgT4\_A2\_C\_CRD\_WT\_67 20 iN\_mRNA\_GM\_dgl4\_C7\_C\_IPW\_WT\_22 iN\_mRNA\_GM\_dgM4\_C1\_C\_MAGEL2\_WT\_41 4 30 iN\_mRNA\_GM\_Control\_1\_8 iN\_mRNA\_GM\_Control\_1\_5