

# GPF *Chlamydomonas reinhardtii* annotation impact

- 1. New gene (11 cases)
- 2. Gene split (2 cases)
- 3. Gene merge (3 cases)
- 4. Gene extension (50 cases)
- 5. Gene truncation (6 cases)
- 6. Gene shift (1 cases)
- 7. Gene internal adjustments (added exons) (12 cases)
- 8. Gene internal adjustments (miscellaneous) (24 cases)
- 9. Gene internal adjustments (removed exons) (8 cases)
- 10. Alternative splicing hint (56 cases)

## New gene (11 cases)

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[ ]

AUGUSTUS without GPF

[+]

AUGUSTUS with GPF

[+]

FJDDJSAJNNPFJAQJJYTTTSJJJEVSPAPHR-1

[GBrowse](#)

[ ]

AUGUSTUS without GPF

[+]

AUGUSTUS with GPF

[+]

VQVJEHTJJSFJHTPWVK-1

[GBrowse](#)

[ ]

AUGUSTUS without GPF

[+]

AUGUSTUS with GPF

[+]

HAJAGTYGTJMSAADVAJJAGR-1

[GBrowse](#)

[ ]

AUGUSTUS without GPF

[-]

AUGUSTUS with GPF

[-]

MEAVAAAAVAJNCGSJJTR-1

[-]

PWAHAAGAAGGASGADGADGK-1

[GBrowse](#)

[ ]

AUGUSTUS without GPF

[+]

AUGUSTUS with GPF

[+]

DPSGKPJNVJEQHJK-1

[+]

PJNVJEQHJK-1

[+]

NJJPSTPFFNTJYDPYR-1

[GBrowse](#)

[ ]

AUGUSTUS without GPF

[+]

AUGUSTUS with GPF

[+]

HPMPGCJJJDSJWVCSFG-1

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[ ]

AUGUSTUS without GPF

[+]

AUGUSTUS with GPF

[+]

YYDDVYEYR-1

[GBrowse](#)

[ ]

AUGUSTUS without GPF

[-]

AUGUSTUS with GPF

[-]

AFJAHNDPQJAVTYK-1

[-]

GENETSJQPJJK-1

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[ ]

AUGUSTUS without GPF

[-]

AUGUSTUS with GPF

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AVPJEWSEGDNTAK-1

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[ ]

AUGUSTUS without GPF

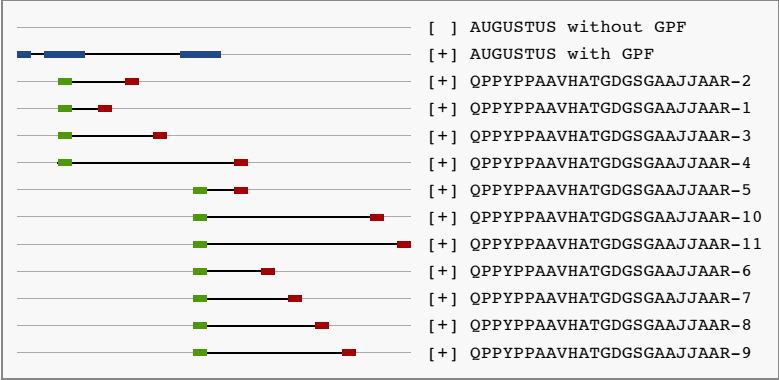
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AUGUSTUS with GPF

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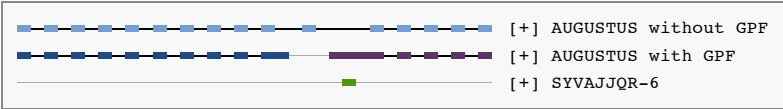
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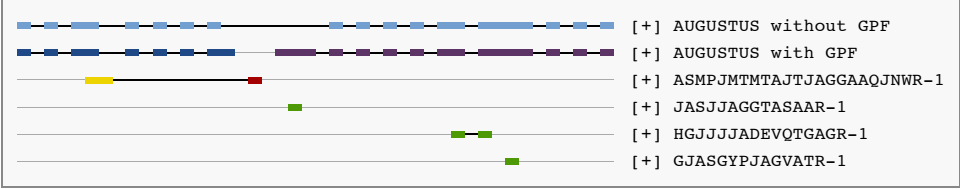


Gene split (2 cases)

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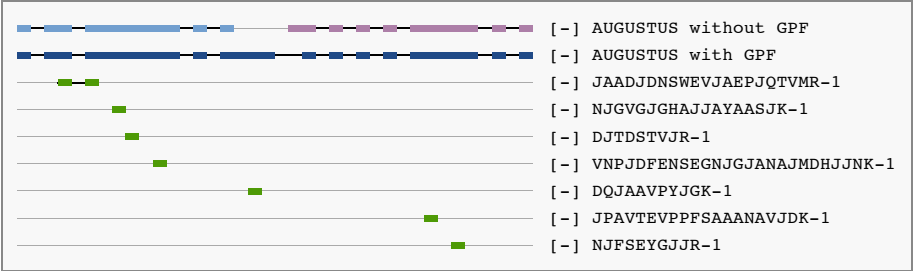


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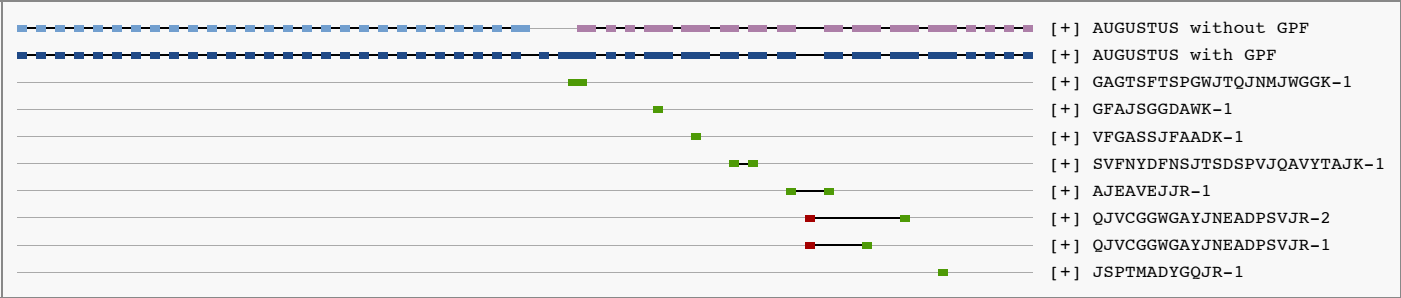


Gene merge (3 cases)

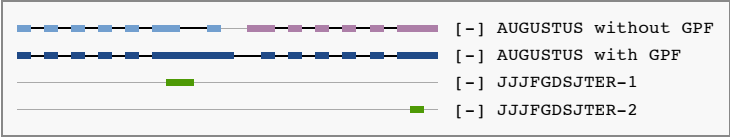
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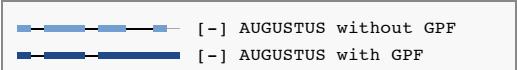


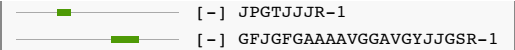
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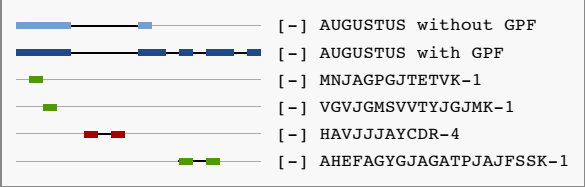
Gene extension (50 cases)

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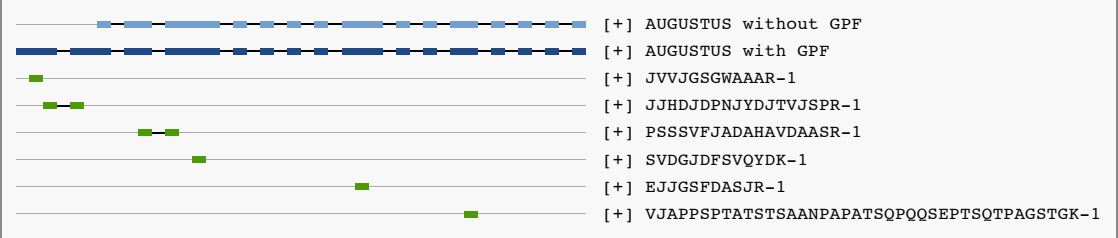




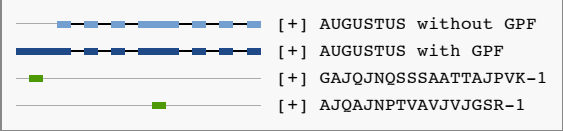
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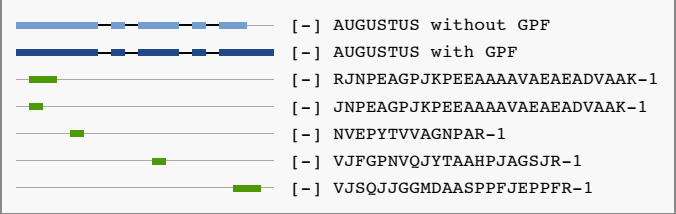
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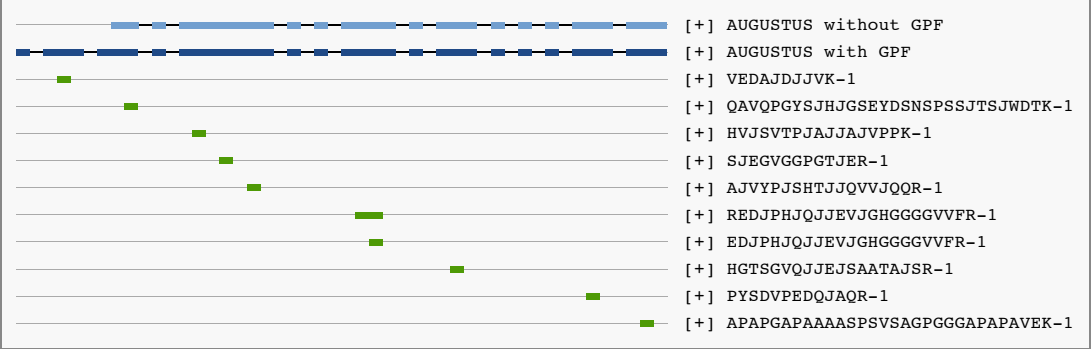
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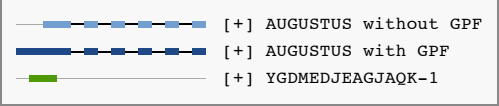
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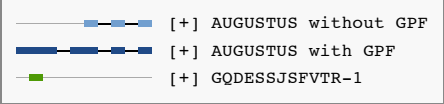
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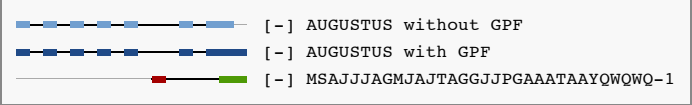
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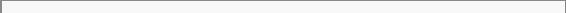
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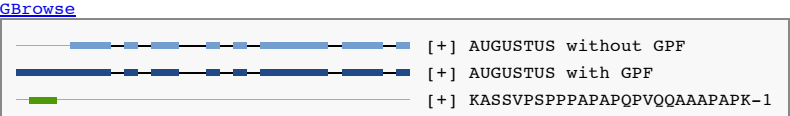
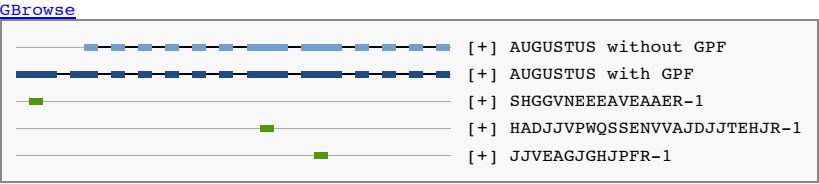
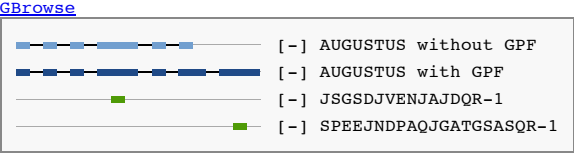
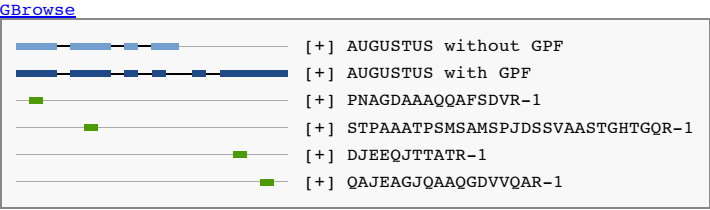
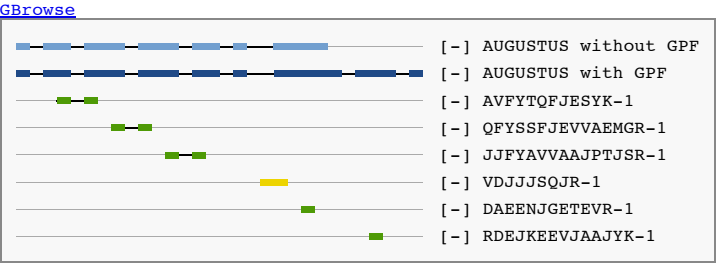
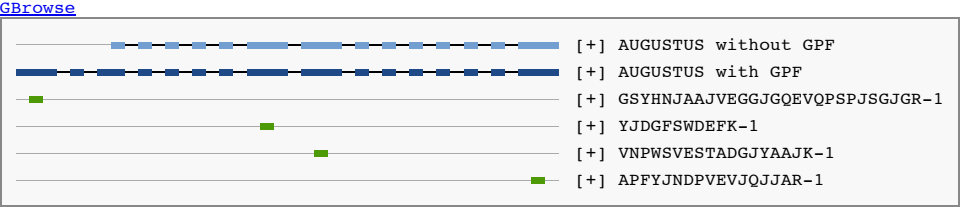
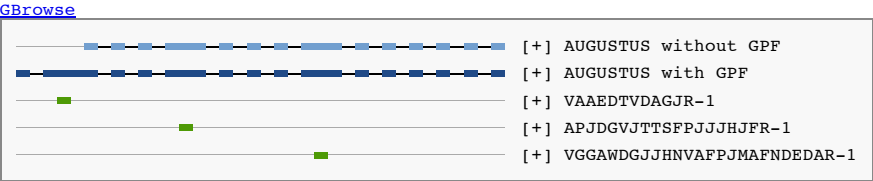
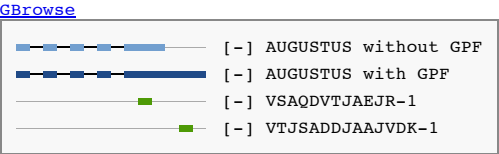
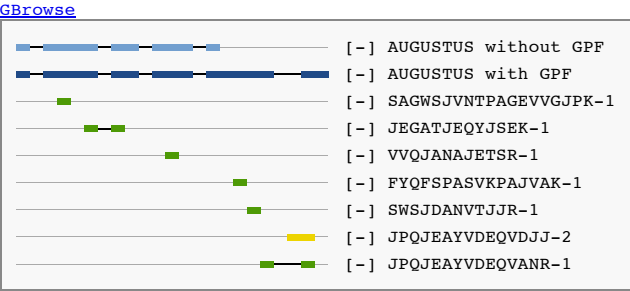
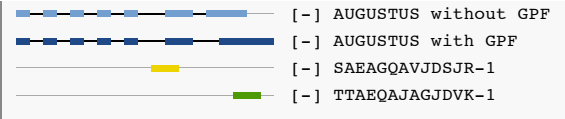


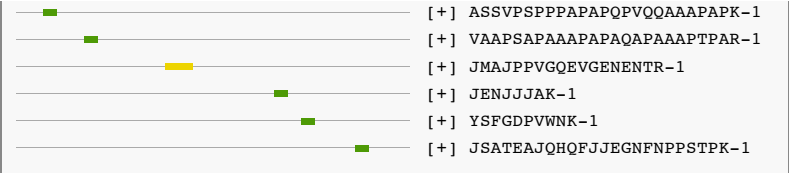
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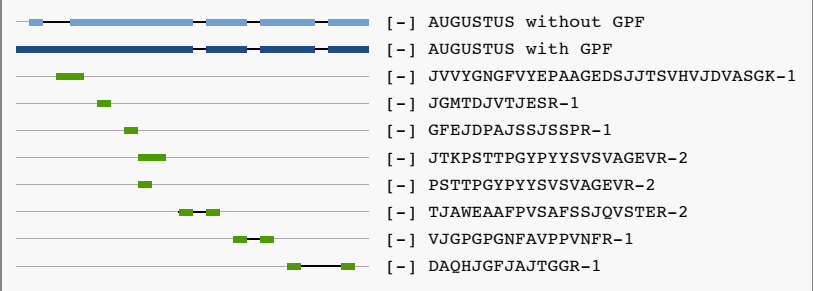
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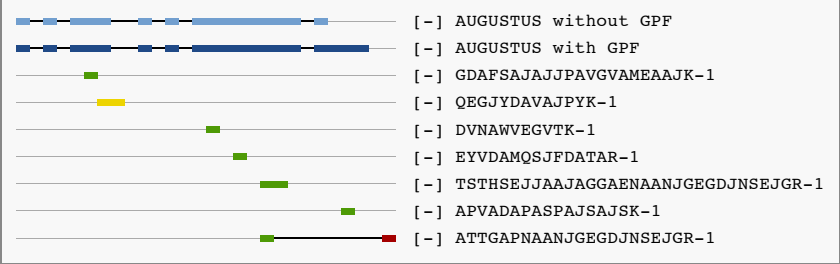




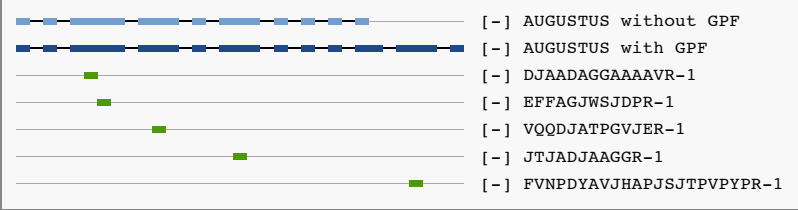
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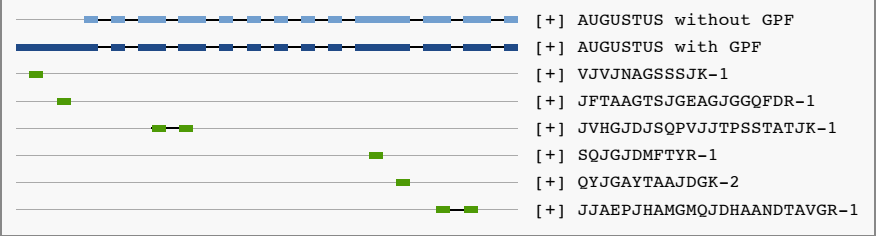
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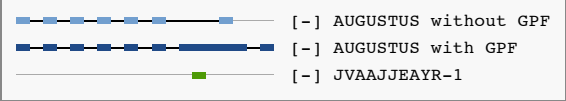
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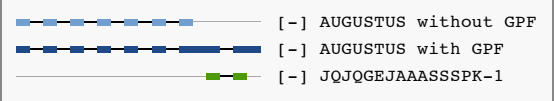
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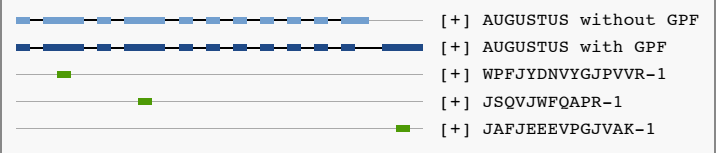
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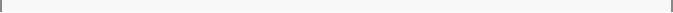
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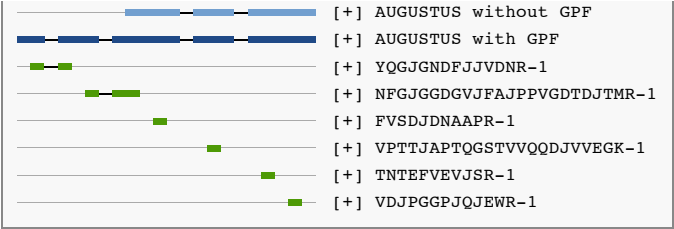


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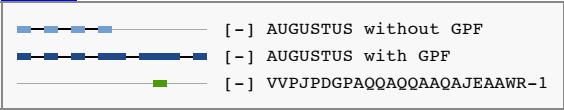


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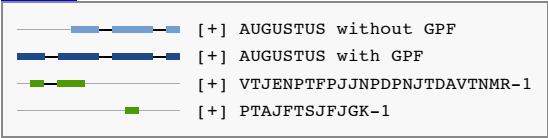




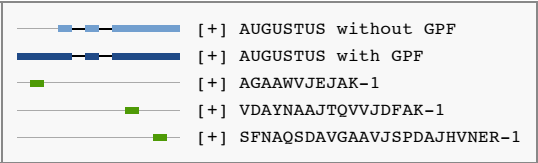
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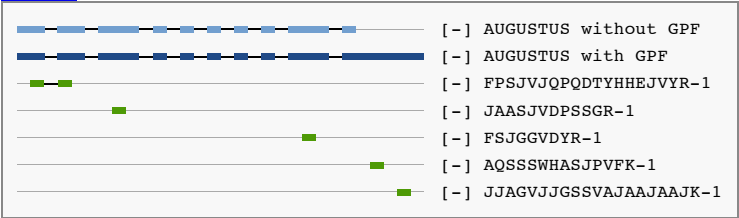
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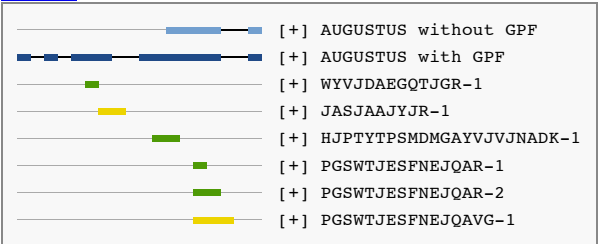
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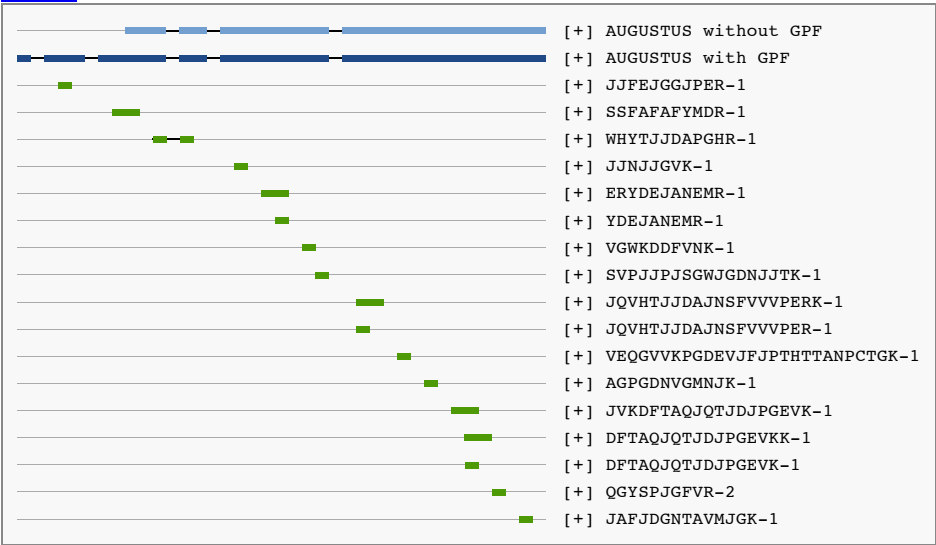
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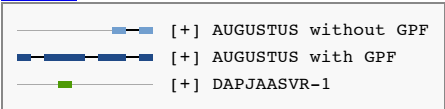
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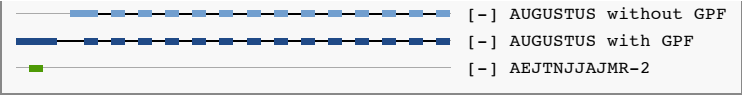
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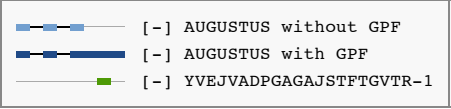
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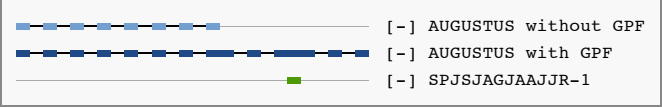
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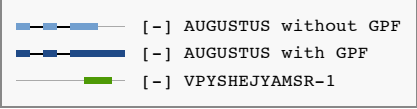
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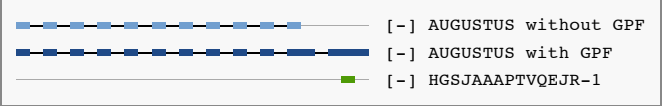
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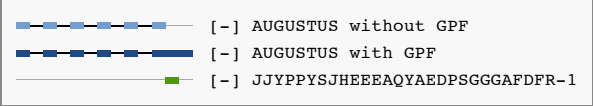
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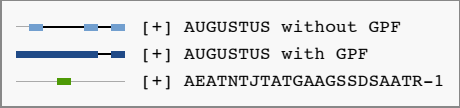
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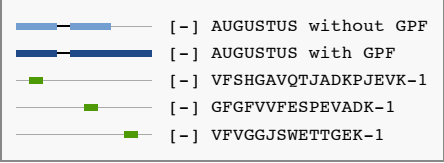
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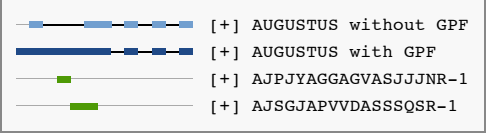
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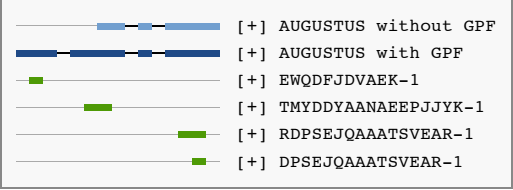
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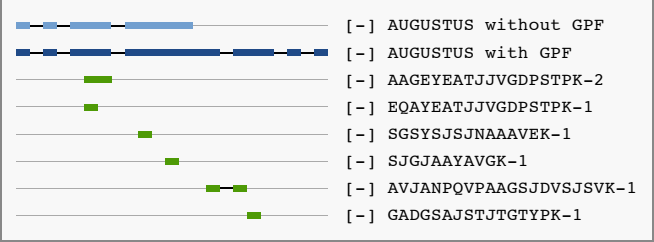
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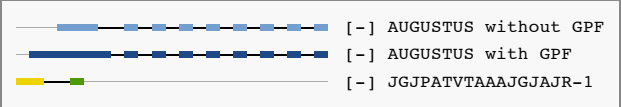
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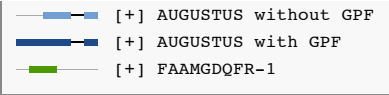


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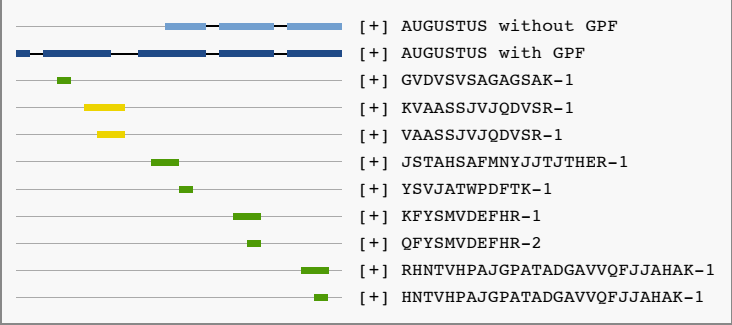


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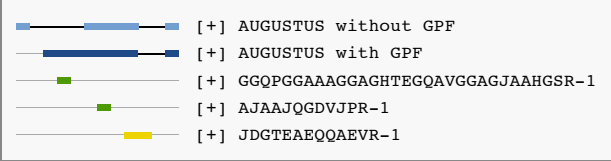


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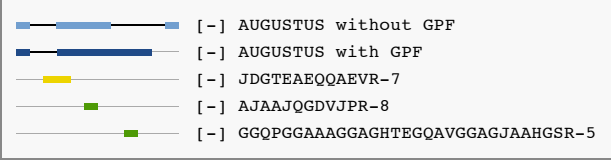


Gene truncation (6 cases)

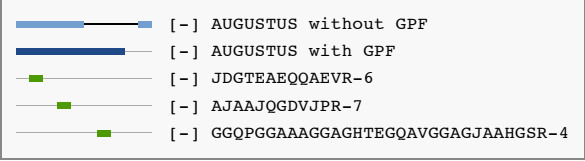
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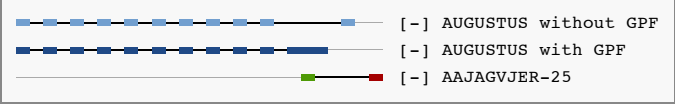
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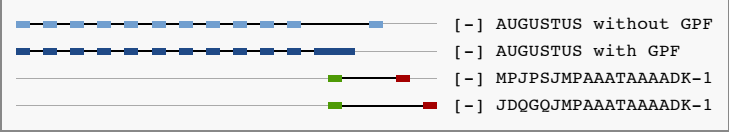
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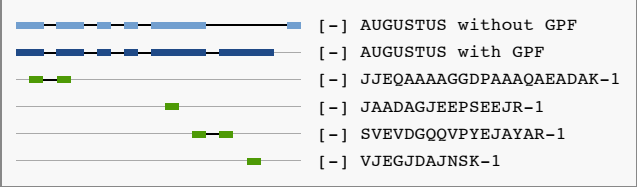
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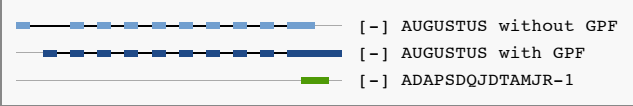


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Gene shift (1 cases)

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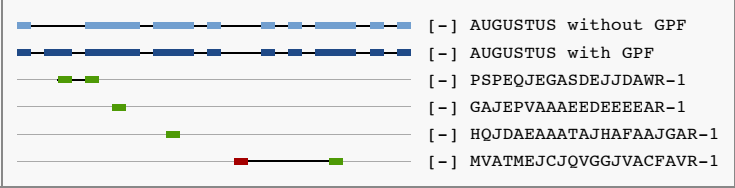
Gene internal adjustments (added exons) (12 cases)



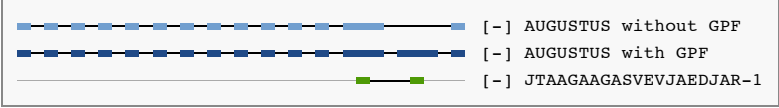
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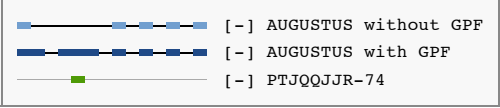
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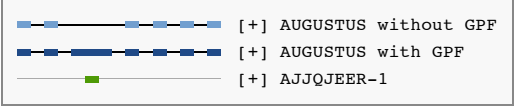
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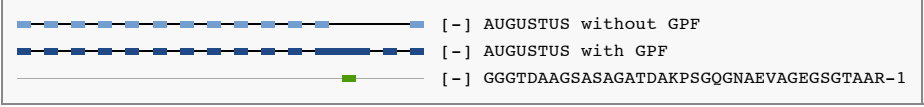
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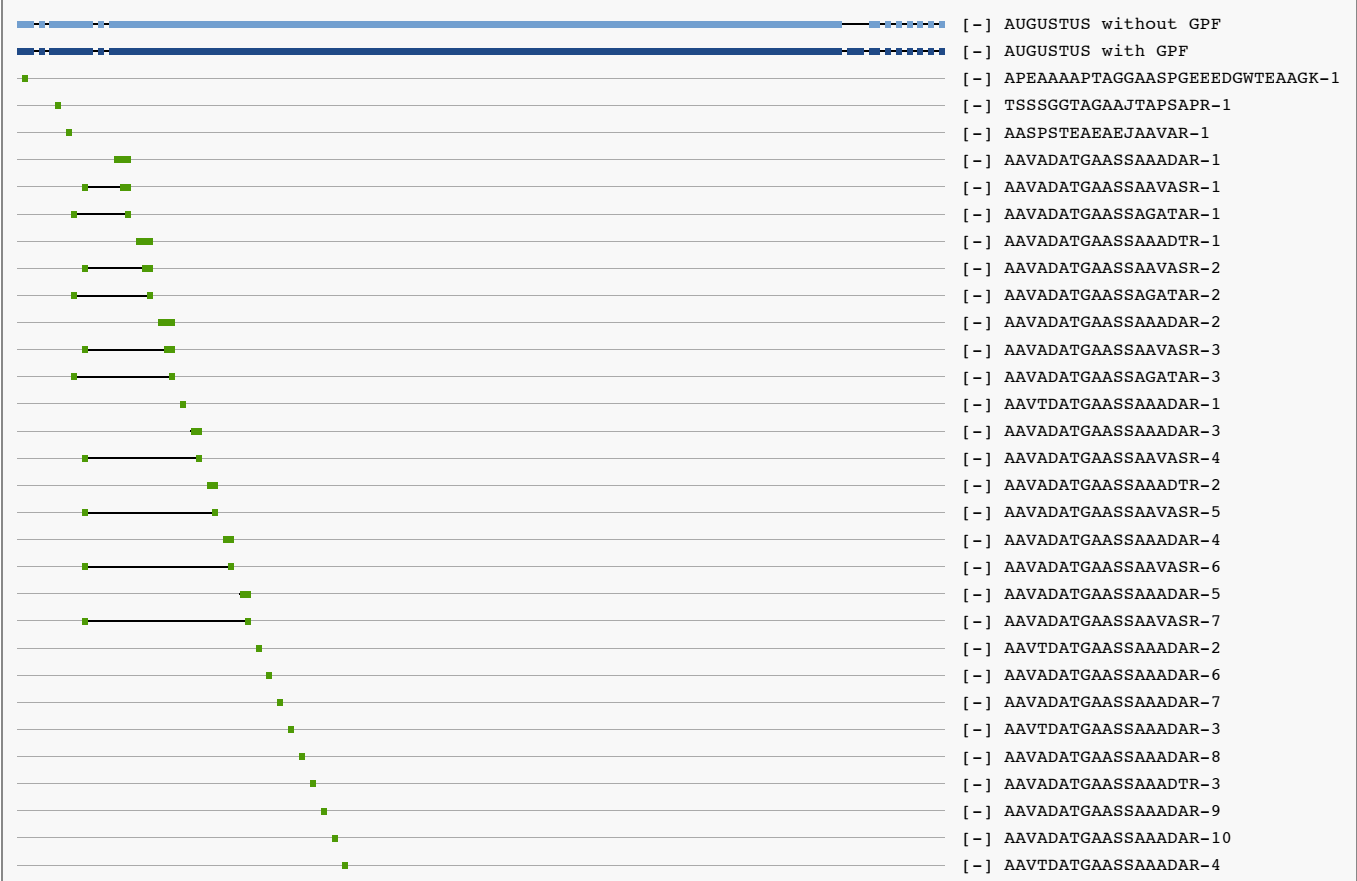
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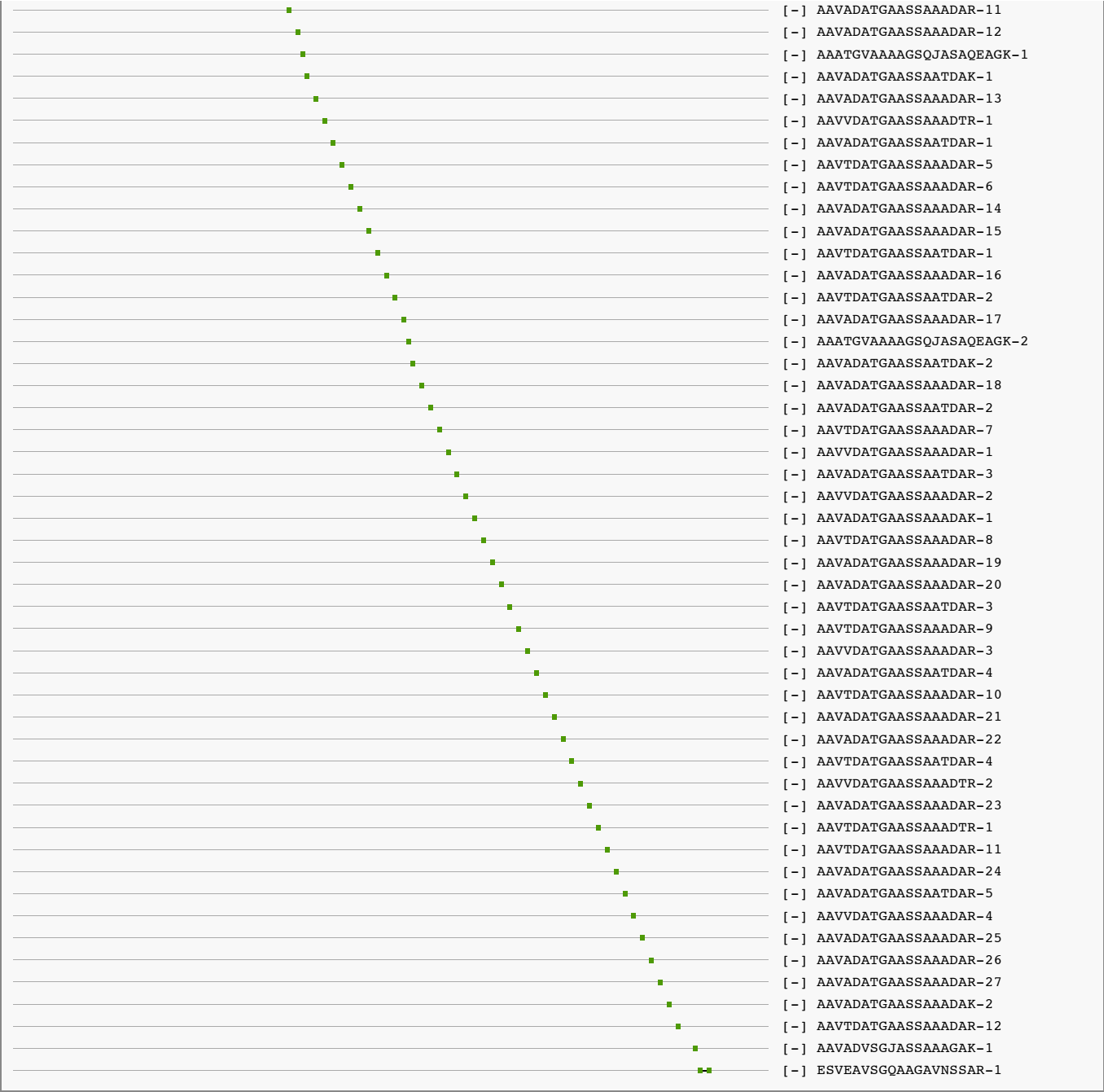


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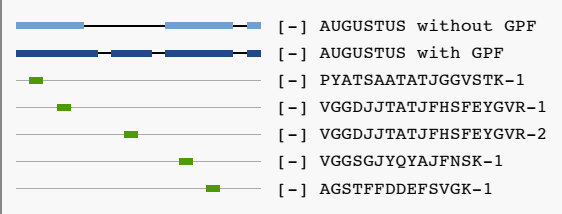




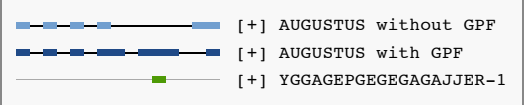
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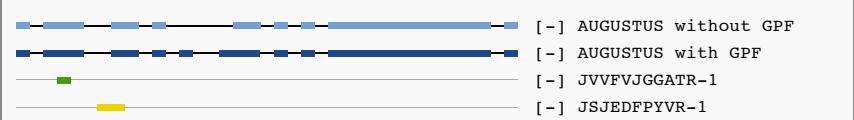
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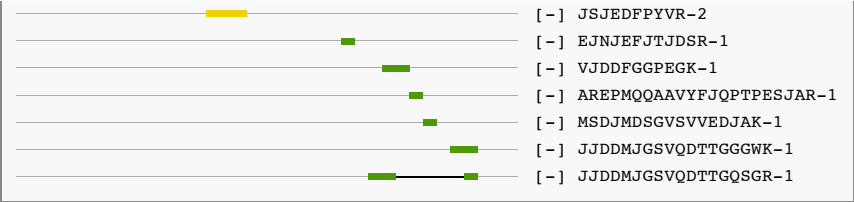


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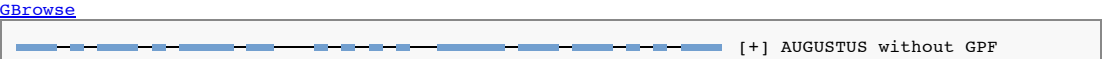
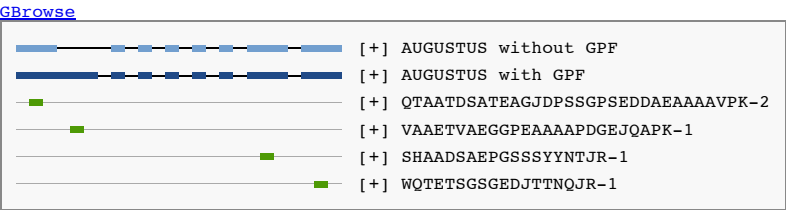
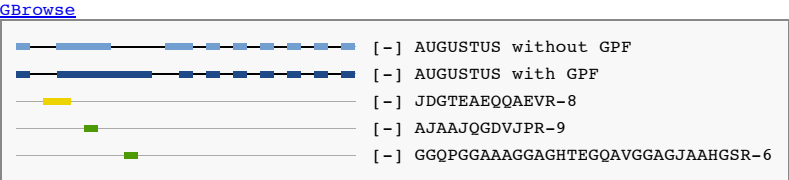
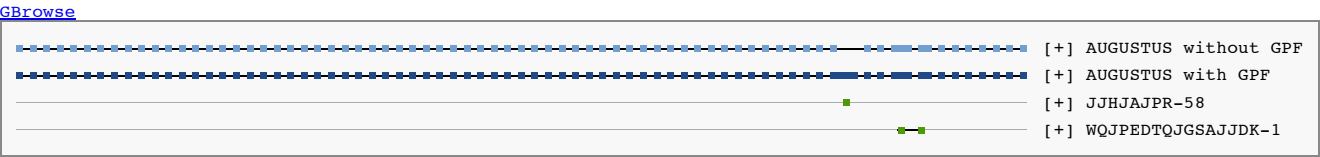
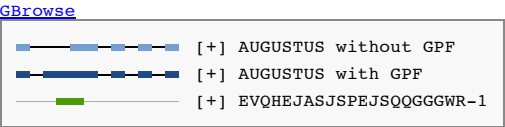
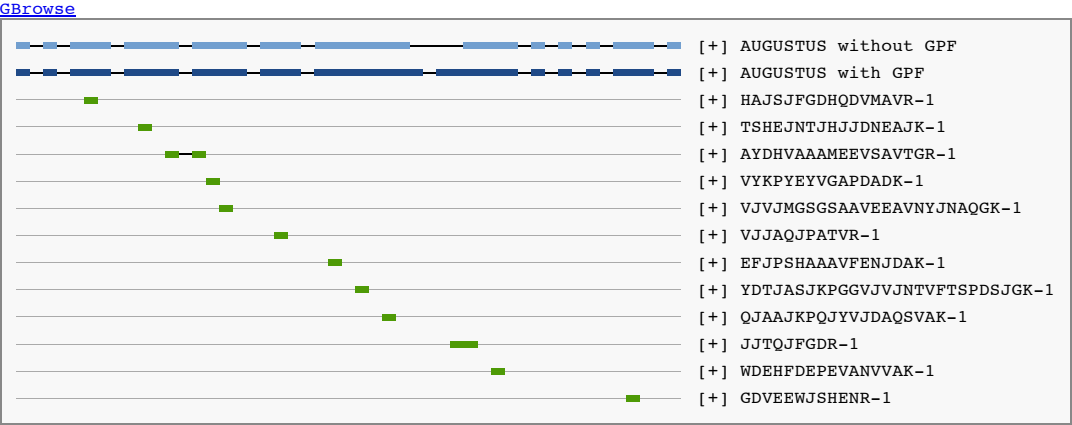
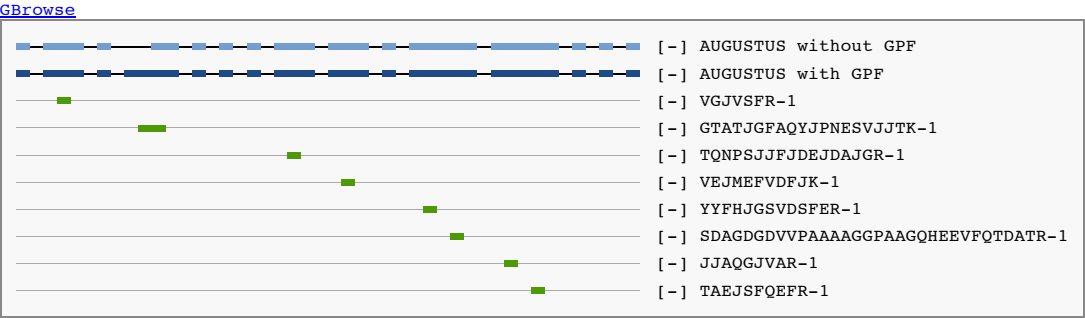
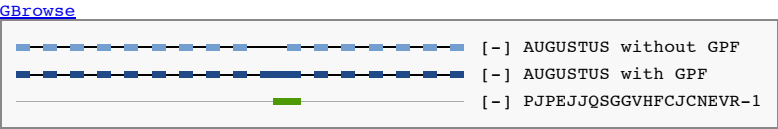


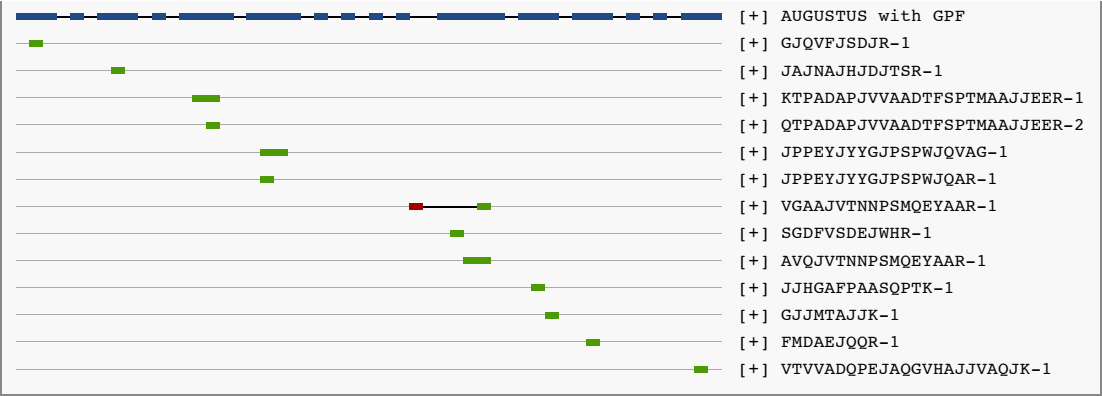
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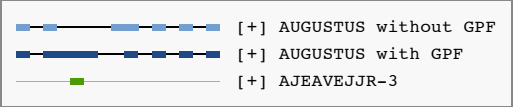


Gene internal adjustments (miscellaneous) (24 cases)

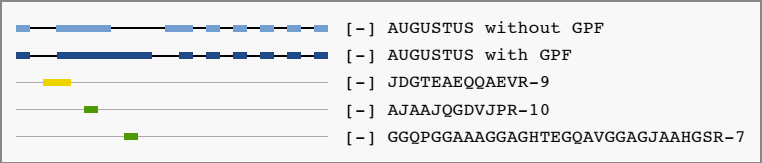




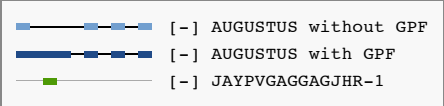
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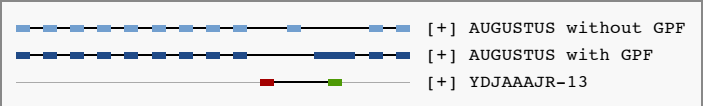
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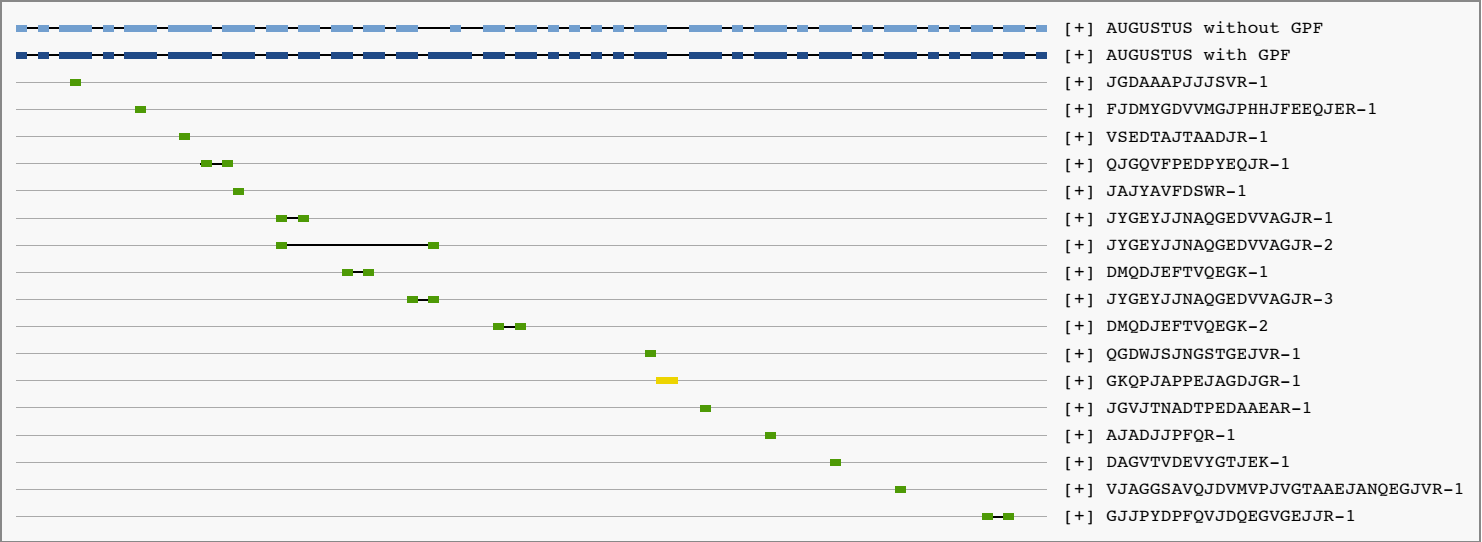
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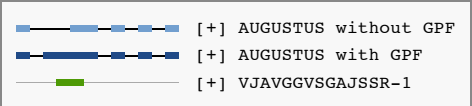
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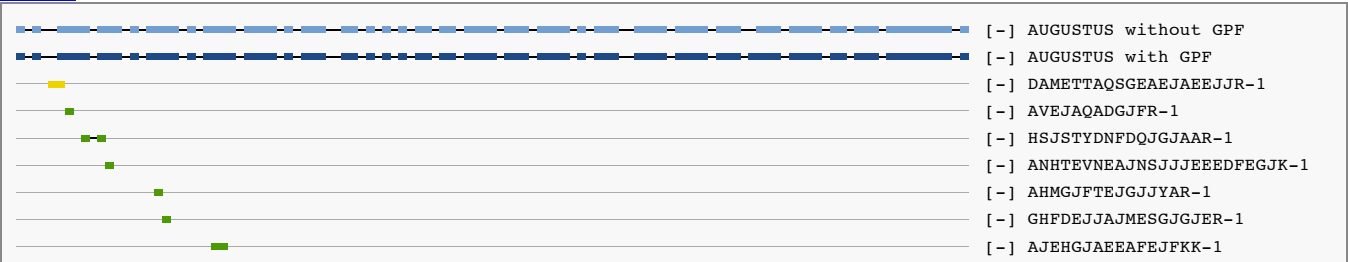
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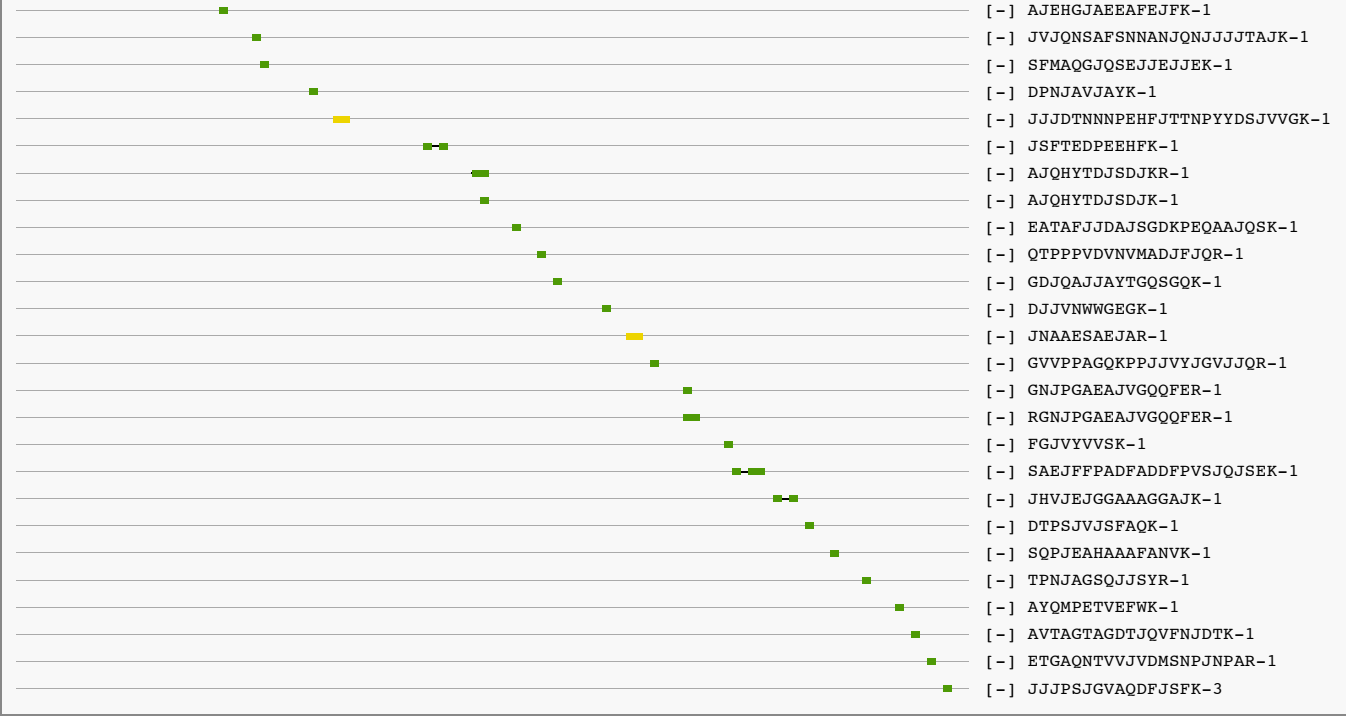


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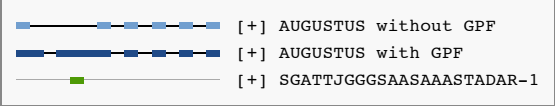




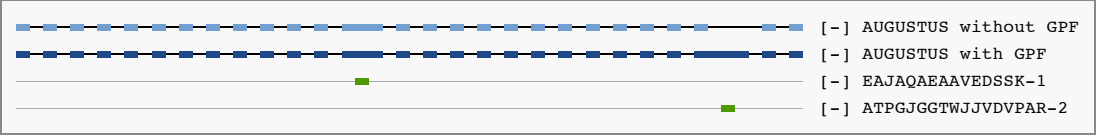
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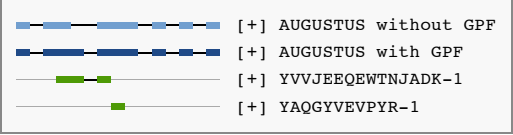
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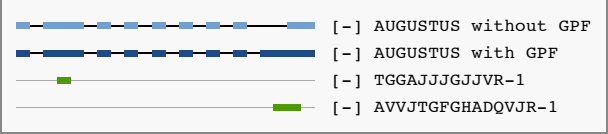
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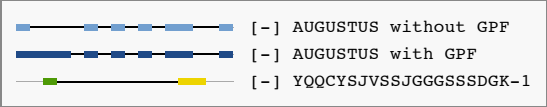
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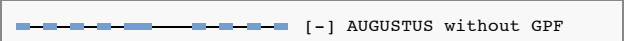
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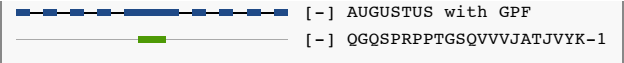


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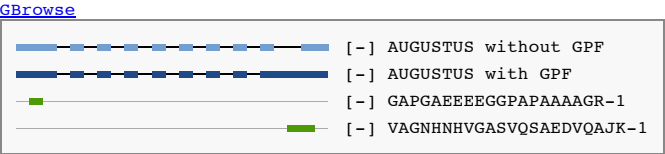
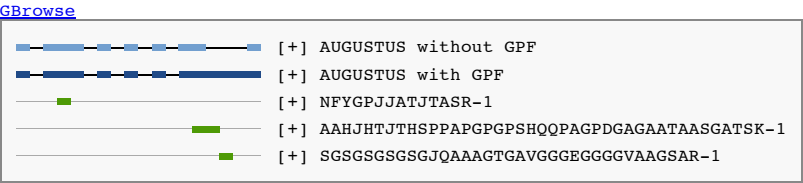
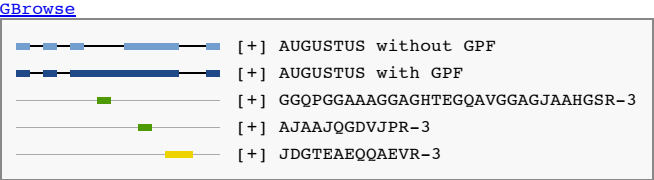
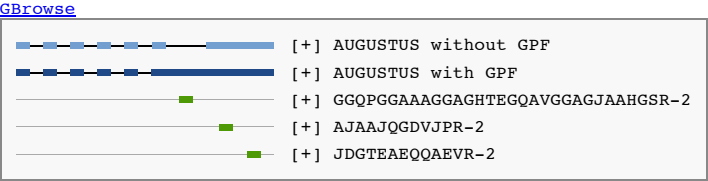
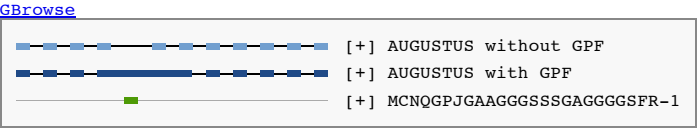
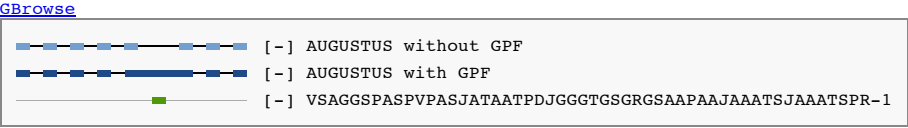
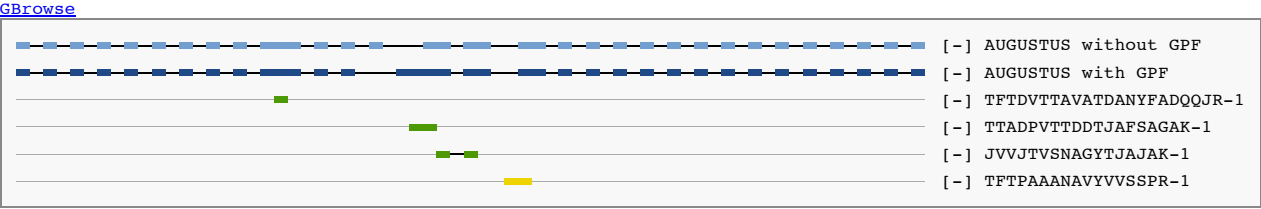
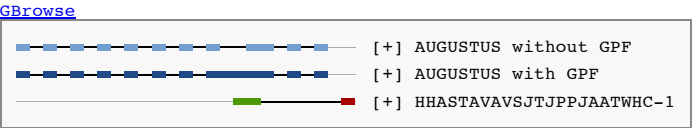


[GBrowse](#)

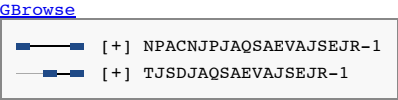
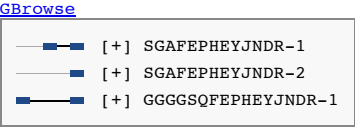








Gene internal adjustments (removed exons) (8 cases)







Alternative splicing hint (56 cases)







		[ - ]	YGDDFDGQTASJPAR-1
		[ - ]	YGDDFDGQTASJTAR-1





[GBrowse](#)

		[ + ]	AQGAATAGAJAAATGQAR-1
		[ + ]	AGAAQAAATAAASQVAEATGAAASQSGAJAAATGQAR-1







[GBrowse](#)

		[ + ]	AATVAADAQAQNTAAAAVGNVQTAAADAAAK-1
		[ + ]	AQDAAAGAAAQNTAAAAVGNVQTAAADAAAK-1





[GBrowse](#)

		[ + ]	JVJEAETJJK-1
		[ + ]	YTJHJVJEAETJJK-1









[GBrowse](#)

		[ + ]	WFPGDYGWDTAGJSADPETFK-5
		[ + ]	WFPGDYGWDTAGJSADPETFK-6
		[ + ]	PSAAGWVEJTAYJDAYVFPGDYGWDTAGJSADPETFK-1
















[GBrowse](#)

		[ + ]	PASAYJEJEJPAJER-1
		[ + ]	PAAAYJEJEJPAJER-1





[GBrowse](#)

		[ + ]	GJDPJHPGGAFDPJGJADDPDTFAEJK-1
		[ + ]	JGPWGGDPJHPGGAFDPJGJADDPDTFAEJK-1
		[ + ]	WGJDPJHPGGAFDPJGJADDPDTFAEJK-1
		[ + ]	WGJDPJHPGGAFDPJGJADDPDTFAEJK-2







[GBrowse](#)

		[ - ]	GGTVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-1
		[ - ]	SQVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-1
		[ - ]	CPVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-1
		[ - ]	JSVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-1
		[ - ]	JSVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-2
		[ - ]	JSVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-3
		[ - ]	TEJVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-1
		[ - ]	TEJVJSPVNGDPFVGMJETPVTAPJVVATYJSNJPAYR-2







[GBrowse](#)

		[ + ]	SWGJYEGJDWJSQNJQNK-1
		[ + ]	PSSSSGJYEGJDWJSQNJQNK-1









[GBrowse](#)

		[ + ]	WVTJASGGVJPNJHAVJJPK-12
		[ + ]	WVTJASGGVJPNJHAVJJPK-13
		[ + ]	QVVSVTJASGGVJPNJHAVJJPK-1







[GBrowse](#)

		[ - ]	QVVSVTJASGGVJPNJHAVJJPK-2
		[ - ]	WVTJASGGVJPNJHAVJJPK-36
		[ - ]	WVTJASGGVJPNJHAVJJPK-37









[GBrowse](#)

		[ - ]	TVCPFPGDYGWDTAGJSADPETFK-1
		[ - ]	GJAAPJSAJCPDPCVHQAHGFPGDYGWDTAGJSADPETFK-1
		[ - ]	WFPGDYGWDTAGJSADPETFK-10
		[ - ]	WFPGDYGWDTAGJSADPETFK-11



[GBrowse](#)

		[ - ]	EVVVVTJASGGVJPNJHAVJJPK-1
		[ - ]	WVTJASGGVJPNJHAVJJPK-34
		[ - ]	WVTJASGGVJPNJHAVJJPK-35



[GBrowse](#)

		[ - ]	GJANJDDHJANPTAVNAFAYATK-2
		[ - ]	GJANJDDHJANPTAVNAFAYATK-3
		[ - ]	CCVJNDDHJANPTAVNAFAYATK-1
		[ - ]	NJDDHJANPTAVNAFAYATK-2




[GBrowse](#)

	[ + ]	VVSDEHGJDPTGTYHGSDSJQJER-1
	[ + ]	VEPHVVVSDEHGJDPTGTYHGSDSJQJER-1




[GBrowse](#)

	[ - ]	PJNVJEQHJK-2
	[ - ]	QAJGPJNVJEQHJK-1




[GBrowse](#)

	[ - ]	YAESVTJASGGVJPNJHAVJJPK-1
	[ - ]	WVTJASGGVJPNJHAVJJPK-38
	[ - ]	WVTJASGGVJPNJHAVJJPK-39



[GBrowse](#)

	[ + ]	WVTJASGGVJPNJHAVJJPK-18
	[ + ]	WVTJASGGVJPNJHAVJJPK-19
	[ + ]	GAGQVVTJASGGVJPNJHAVJJPK-1



[GBrowse](#)

	[ - ]	GQJTPSNATAASEJQSJGR-1
	[ - ]	GGJATPSNATAASEJQSJGR-1
	[ - ]	GGJTPSNATAASEJQSJGR-1



[GBrowse](#)

	[ + ]	HVHAPS AJJSVJJQJGJGTAG-1
	[ + ]	HGTTVPCHGHSJNPAJJSVJJQJGJGTAG-1



[GBrowse](#)

	[ - ]	QPF SHVJGQPJJJHVK-1
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[GBrowse](#)

	[ - ]	AJTDJGJYPAVDPJDSTSR-1
	[ - ]	VCVJJGJYPAVDPJDSTSR-1



[GBrowse](#)

	[ - ]	YDDJPEMAFYMVGGJHEPFAR-1
	[ - ]	YDDJPEMAFYMVGGJHEWJR-1



[GBrowse](#)

	[ - ]	JHPCVTJASGGVJPNJHAVJJPK-1
	[ - ]	WVTJASGGVJPNJHAVJJPK-41
	[ - ]	WVTJASGGVJPNJHAVJJPK-42



[GBrowse](#)

	[ - ]	GJCJAJVQATPDEVSSENR-1
	[ - ]	AJVQATPDEVSSENR-1




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	[ + ]	EAGHDPQEYVVDDESK-1
	[ + ]	FMTNPQEYVVDDESK-1




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	[ - ]	QGAAJJNAHJAQQMSNJPVMTK-1
	[ - ]	QGA AJMSNJPVMTK-1


[GBrowse](#)

	[ - ]	VJGASJDSQFTHJAFSNTPR-1
	[ - ]	AJNTEVJGASJDSQFTHJAFSNTPR-1
	[ - ]	MVVJGASJDSQFTHJAFSNTPR-1


[GBrowse](#)

	[ + ]	EPQVVJYFNAYR-1
	[ + ]	EPQVVJYFNAYR-2
	[ + ]	EPAQVVJYFNAYR-1




[GBrowse](#)

	[ - ]	JGEVHEGTATMDWMVQESWR-1
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 [ - ] JGEVHEGTATMDWMVQEEAGR-1



[GBrowse](#)

 [ - ] PSGVNADAJSR-1  
 [ - ] PSGVNADAJSR-2  
 [ - ] SGETVNFVNAGFPHNJVFDEDAJPSGVNADAJSR-1







[GBrowse](#)

 [ + ] AGDVDGAJAENVK-1  
 [ + ] PGPGAGDVDGAJAENVK-1






[GBrowse](#)

 [ - ] AGDVDGAJAENVK-2  
 [ - ] PGPGAGDVDGAJAENVK-2



[GBrowse](#)

 [ + ] FASAGNJDDHJANPTVNNAFATK-1  
 [ + ] JNHNJDDHJANPTVNNAFATK-1  
 [ + ] VPVSNJDDHJANPTVNNAFATK-1  
 [ + ] QJSSNJDDHJANPTVNNAFATK-1  
 [ + ] NJAMNJDDHJANPTVNNAFATK-1  
 [ + ] FGEANJDDHJANPTVNNAFATK-1



[GBrowse](#)

 [ + ] WFPGDYGWDTAGJSADPETFK-1  
 [ + ] WFPGDYGWDTAGJSADPETFK-2  
 [ + ] DTAJFPGDYGWDTAGJSADPETFK-1  
 [ + ] EGFPGDYGWDTAGJSADPETFK-1  
 [ + ] EGFPGDYGWDTAGJSADPETFK-2





[GBrowse](#)

 [ - ] VYJJNGJDPJYPGESFDPJGJADDPDTFAEJK-1  
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
[GBrowse](#)

 [ - ] MPJPSJMPAAATAAAADK-1  
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[GBrowse](#)

 [ - ] WFPGDYGWDTAGJSADPETFK-8  
 [ - ] WFPGDYGWDTAGJSADPETFK-9  
 [ - ] ATMTVPVGGHSAYFPGDYGWDTAGJSADPETFK-1  
 [ - ] EGFPGDYGWDTAGJSADPETFK-4




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 [ + ] SASVTPQSFPJGJADDPDTFAEJK-1  
 [ + ] SFPDPJGJADDPDTFAEJK-2



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 [ + ] YGANVDGYSPJYTPDJWTESGDSYTGTK-1  
 [ + ] PJCVDHYGANVDGYSPJYTPDJWTESGDSYTGTK-1






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 [ + ] AGEPCFGJDPJYPGESFDPJGJADDPDTFAEJK-1  
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 [ - ] GTSEJGYPGGPFDPJGJSK-1  
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

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 [ - ] EANSTPAYJTGEFFPGDYGWDTAGJSADPETFK-2  
 [ - ] EANSTPAYJTGEFFPGDYGWDTAGJSADPETFK-3  
 [ - ] CPNSTPAYJTGEFFPGDYGWDTAGJSADPETFK-1  
 [ - ] NJDVVDVTNSTPAYJTGEFFPGDYGWDTAGJSADPETFK-1



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	[ - ]	EANSTPAYJTGEFPGDYGWDTAGJSADPETFK-4
	[ - ]	JNNDTGGVNSTPAYJTGEFPGDYGWDTAGJSADPETFK-1
	[ - ]	GNVYSJNSTPAYJTGEFPGDYGWDTAGJSADPETFK-1
	[ - ]	VSMSPTVDNSTPAYJTGEFPGDYGWDTAGJSADPETFK-1



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	[ - ]	DEJDDPFEJAJR-1
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

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
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





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
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
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	[ - ]	QNATPAYJTGEFPGDYGWDTAGJSADPETFK-4
	[ - ]	PTSTTAJPNATPAYJTGEFPGDYGWDTAGJSADPETFK-1
	[ - ]	VAHSCSAPAPNATPAYJTGEFPGDYGWDTAGJSADPETFK-1
	[ - ]	NNATPAYJTGEFPGDYGWDTAGJSADPETFK-3
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


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	[ - ]	SFDPJGJADDPDTFAEJK-6

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	[ - ]	QHVSJGJDPJYPGESFDPJGJADDPDTFAEJK-1
	[ - ]	YHPAGJDPJYPGESFDPJGJADDPDTFAEJK-1

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	[ - ]	WFPGDYGWDTAGJSADPETFK-12
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	[ - ]	WFPGDYGWDTAGJSADPETFK-13