

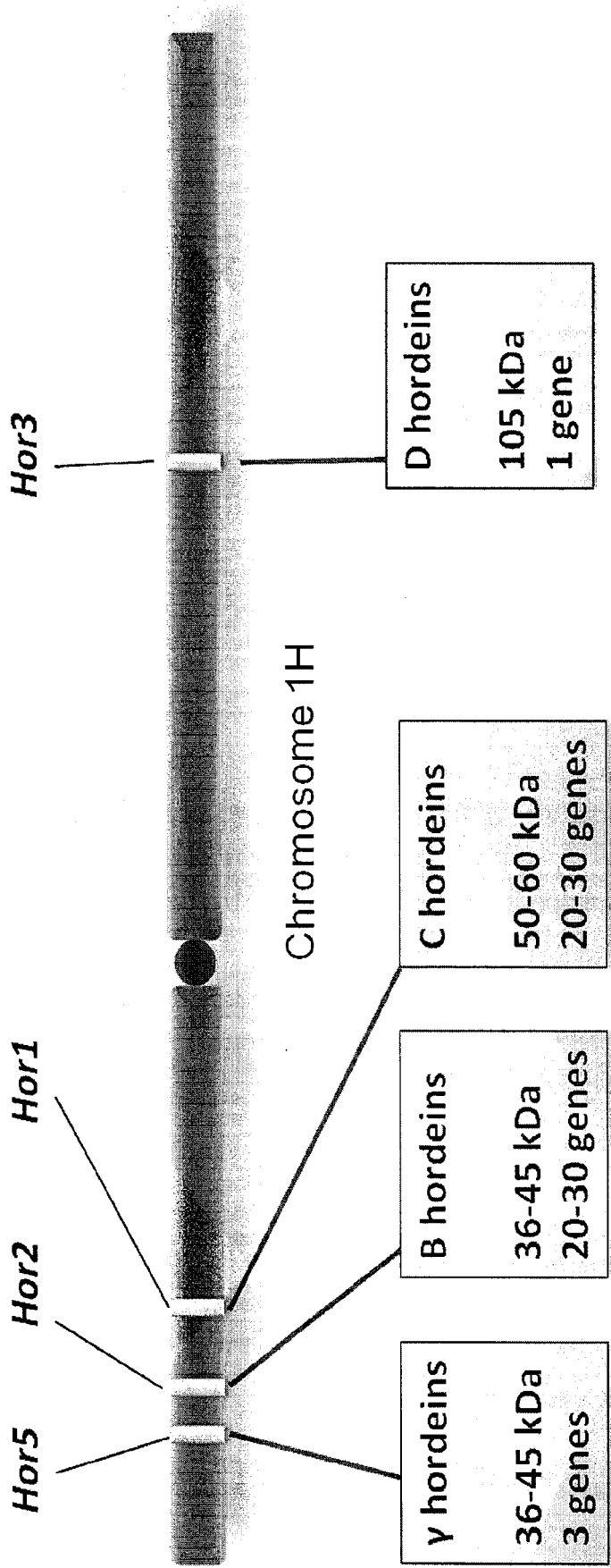


Figure 1

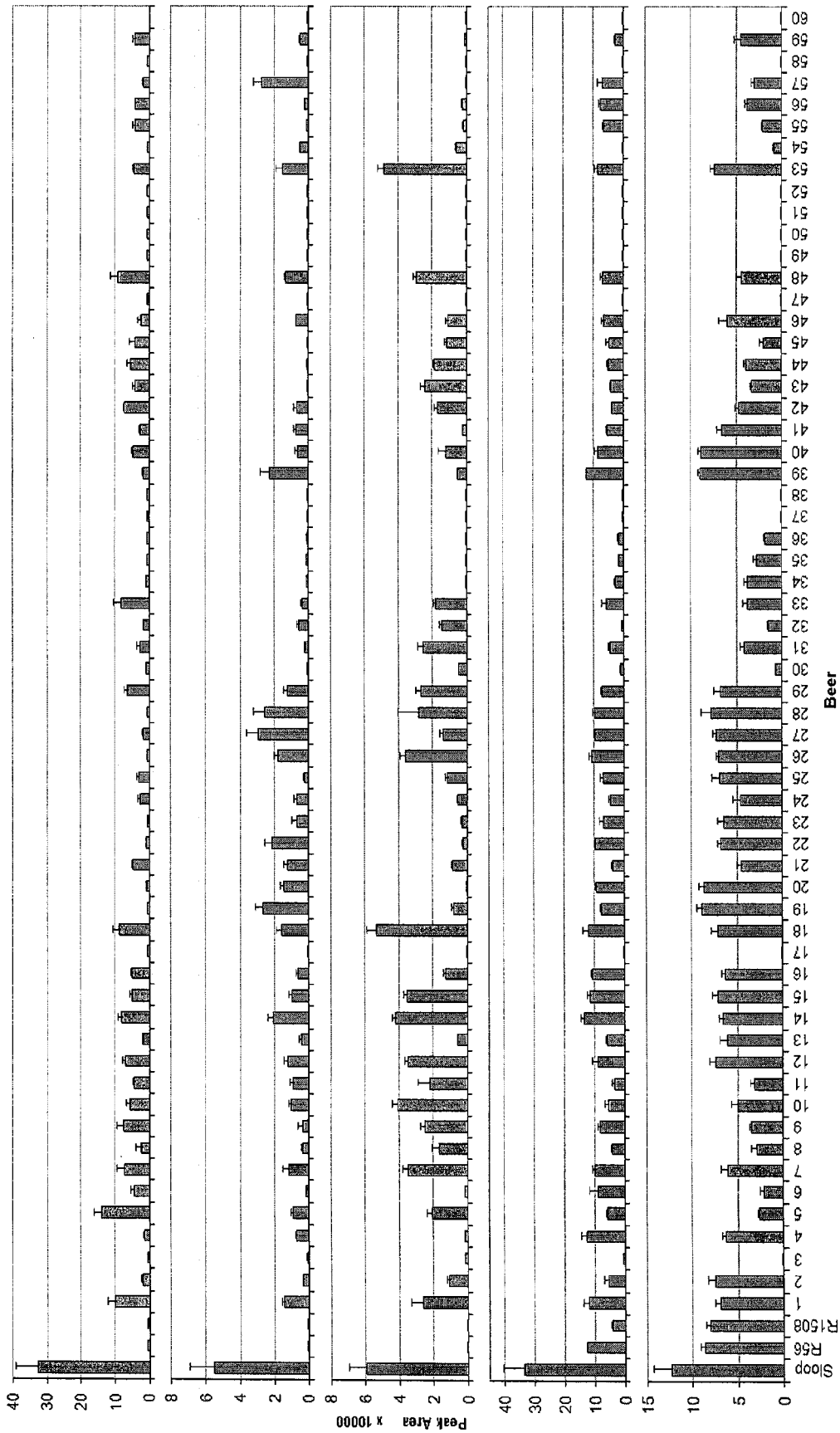


Figure 2

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      10      20      30      40      50      60      70      80
Sloop con  MAKRLVLFVAVIVALVALTTAEREINGNNIFLDSRSRQLQCERELQESSLEACRRVVDQQLVGLPWSTGLQMCCCQLR
D-null con  MAKRLVLFVAVIVALVALTTAEFEINGNNIFLDSRSGQLQCERELQESSLEACRRVVDQQLVGLPWSTGLQMCCCQLR

      90      100     110     120     130     140     150     160
Sloop con  DVSPECRPVALSQVVRQYEQQTEVPKGGSFYPGGTAPPLQGGGWWGTSVKWYYPDQTSSQSSWGQGGYHQSVTSSQQP
D-null con  DVSPECRPVALSQVVRQYEQQTEVPKGGSFYPGGTAPPLQGGGWWGTSVKWYYPDQTSSQSSWGQGG*

      170     180     190     200     210     220     230     240
Sloop con  GGGQGSYPGSTFPQQPGQGGQPGQRFWSYPSATFPQQPGQ~~GGGQGGYYPGATSLLPQGQGGPYQSATSPQQPGQ

      250     260     270     280     290     300     310     320
Sloop con  GGQHETQYQFATSPHQPGQWQPGQGGQGGYPSVTSPPQSGGQGTGYPSTTSPPQSGGQQLGGQGGQPGQGGYPSATF

      330     340     350     360     370     380     390     400
Sloop con  PQQPGQWQGSYPSTTSPPQSGGQGGYNSGTSTQPGQVQQLGGQGGYPIATSPQPGQGGQQLGGQGGQPGHGGQLV

      410     420     430     440     450     460     470     480
Sloop con  QGGQGGQGGQGHYPSMTSPHQTGQGGKGYYPASISFPQSGGQGGYQPSGASSQGSVQGACQHSTSSPQQQAQGCQASSP

      490     500     510     520     530     540     550     560
Sloop con  KQGLGSLYPSGAYTQOKPGQGYNPGGTSPLHQGGGFGGGLTTEQPQGGKQPFHCQQTTVSPHQGGQTTVSPHQGGQTT

      570     580     590     600     610     620     630     640
Sloop con  VSPHQGGQTTVSPHQGGQTTVSPHQGGQTTVSPHQGGQTTVSPHPGQTTVSPHQGGQTTVSPHPGQTTVSPHQGGQTT

      650     660     670     680     690     700     710     720
Sloop con  VSPHQGGQTTVSPHQGGQTTVSPHQGGQTTVSPHQGGQGGEPGCGFPQGGQTTVSLHHGQGSNELYYGSPYHVSVEQPSAS

      730     740     750
Sloop con  LKVAKAQQLAAQLPAMCRLEGGGGLLASQ*

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Figure 3

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      10      20      30      40      50      60      70
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  GACACATATTCTGCCAAAACCCAGAACAAATACACTTCTCGTAGATGAAGAGAACAGACCAAGATACA
      80      90      100     110     120     130     140
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  AACGTCCACGCTTCAGCAAACAGTACCCAGAACTAGGATTAAGCCGATTACGCGGCTTTAGCAGACCGT
      150     160     170     180     190     200     21
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  CCAAAAAAACTGTTTTTGCAAAGCTCCAATTCTCCTTGCTTATCCAATTTCTTTTGTGTGGCAAACCTGC
      220     230     240     250     260     270     280
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  ACTTGTCGAACCGATTTTGTTCCTTCCCGTGTTCTTCTTAGGCTAACTAACACAGCCGTGCACATAGCCA
      290     300     310     320     330     340     350
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  ....C.....A.....
      360     370     380     390     400     410     420
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  TGGTCCGGAATCTTCACCTCGTCCCTATAAAAGCCAGCCAATCTCCACAATCTCATCATCACCAGAGAAC
      430     440     450     460     470     480     490
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  ....C.....
      500     510     520     530     540     550     560
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  V A V I V A L V A L T T A E R E I N G N N I F
      570     580     590     600     610     620     630
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  V A V I V A L V A L T T A E P E I N G N N I F
      640     650     660     670     680     690     700
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  L D S R S R Q L Q C E R E L Q E S S L E A C R R
      710     720     730     740     750     760     770
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  L D S R S G Q L Q C E R E L Q E S S L E A C R R
      780     790     800     810     820     830     840
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  V V D Q Q L V G Q L P W S T G L Q M Q C C Q Q
      850     860     870     880     890     900     910
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  V V D Q Q L V G Q L P W S T G L Q M Q C C Q Q
      920     930     940     950     960     970     980
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  GCTTCGGGACGTCAGCCCCGAGTGCCGCCCGCTGCCCTCAGCCAGGTCGTGAGCAATACGAGCAGCAA
      990    1000    1010    1020    1030    1040    1050
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  L R D V S P E C R P V A L S Q V V R Q Y E Q Q
      1060    1070    1080    1090    1100    1110    1120
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
D-null con  L R D V S P E C R P V A L S Q V V R Q Y E Q Q

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Figure 4

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      710      720      730      740      750      760      770
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          ACCGAGGTGCCATCCAAGGGAGGATCCTTCTACCCGGGGGGGACCGCACCGCCGCTGCAGCAAGGAGGAT
D-null con  T E V P S K G G S F Y P G G T A P P L Q Q G G W
          ....|....|....|....|....|....|....|....|....|....|....|....|
          T E V P S K G G S F Y P G G T A P P L Q Q G G W

      780      790      800      810      820      830      840
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          GGTGGGGAACCTCTGTAAATGGTACTACCCAGACCAAACCTTCTTCGCAACAGTCATGGCAAGGGCAACA
          W G T S V K W Y Y P D Q T S S Q Q S W Q G Q Q
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|
          W G T S V K W Y Y P D Q T S S Q Q S W Q G Q Q

      850      860      870      880      890      900      910
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          AGGTACCAACAAAGCGTAACCTTCTCCAGCAGCCAGGACAAGGGCAGCAAGGGTCTTACCCAGGTTCA
          KpnI
          G Y H Q S V T S S Q Q P G Q G Q Q G S Y P G S
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|
          G *
          G

      920      930      940      950      960      970      980
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          ACTTTCCTCCGAGCAGCCAGGACAAGGACAACAACAGGACAGAGGCAGCCATGGTCTATCCAAGTGCAA
          3' D null marker
          T F P Q Q P G Q G Q Q P G Q R Q P W S Y P S A T
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|

      990      1000      1010      1020      1030      1040      1050
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          CTTTCCCAACAGCCAGGGC-----AAGGGCAAGGGCAACAAGGGTACTACCCAGGCGCAACTTCCCT
          F P Q Q P G Q G Q G Q Q G Y Y P G A T S L
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|
          AAGGGC

      1060      1070      1080      1090      1100      1110      1120
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          GCTGCAGCCAGGACAAGGGCAACAAGGGCCCTACCAGAGTGCAACTTCTCCACAGCAGCCAGGACAAGGA
          L Q P G Q G Q Q G P Y Q S A T S P Q Q P G Q G
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|
          A

      1130      1140      1150      1160      1170      1180      1190
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          CAGGGACACCAAGAGACCTATCAATTTGCAACTTCCCGCATCAGCCAGGACAATGGCAACAACAGGAC
          Q G H Q E T Y Q F A T S P H Q P G Q W Q Q P G Q
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|
          A.A.C.A

      1200      1210      1220      1230      1240      1250      1260
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          AAGGGCAACAAGGGTACTACCCAAGTGTAACCTTCTCCACAACAGTCGGGACAAGGGCAACAGGGTACCC
          G Q Q G Y Y P S V T S P Q Q S G Q Q T G Y P
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|
          CA

      1270      1280      1290      1300      1310      1320      1330
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          AAGTACAACCTTCTCCACAACAATCGGGCAAGGGCAACAGCTGGGACAAGGGCAACAACAGGACAAGGG
          S T T S P Q Q S G Q G Q Q L G Q G Q Q P G Q G
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|

      1340      1350      1360      1370      1380      1390      1400
Sloop con  ....|....|....|....|....|....|....|....|....|....|....|....|
          CAACAAGGGTACCCAAGTGCAACTTTTCCACAACAGCCAGGACAATGGCAACAAGGGTCTTACCCAAGTA
          Q Q G Y P S A T F P Q Q P G Q W Q Q G S Y P S T
D-null con  ....|....|....|....|....|....|....|....|....|....|....|....|
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Figure 4 (continued)

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      1410      1420      1430      1440      1450      1460      1470
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  CAACTTCTCCGCAGCAGTCAGGACAAGGGCAACAAGGGTACAACCCAAGTGGAACTTCTACGCAGCAGCC
            T S P Q Q S G Q G Q Q G Y N P S G T S T Q Q P
D-null con  .....

      1480      1490      1500      1510      1520      1530      1540
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  GGGACAAGTGCAACAGTTGGGACAAGGGCAACAAGGGTACTACCCAATTGCAACTTCTCCGCAGCAGCCA
            G Q V Q Q L G Q G Q Q G Y Y P I A T S P Q Q P
D-null con  .....

      1550      1560      1570      1580      1590      1600      1610
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  GGACAAGGGCAACAGCTAGGACAAGGGCAACAACCAGGACATGGGCAACAGCTAGTGCAGGGCAACAAC
            G Q G Q Q L G Q G Q Q P G H G Q Q L V Q G Q Q Q
D-null con  .....

      1620      1630      1640      1650      1660      1670      1680
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  AAGGACAAGGGCAACAAGGACACTACCCAAGTATGACTTCTCCGCACCAAAACAGGACAAGGGCAAAAAGG
            G Q G Q Q G H Y P S M T S P H Q T G Q G Q K G
D-null con  .....

      1690      1700      1710      1720      1730      1740      1750
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  ATACTACCCAAGTGCAATTTCTCCGCAGCAGTCAGGACAAGGACAACAAGGATACCAGCCTAGTGGAGCT
            Y Y P S A I S P Q Q S G Q G Q Q G Y Q P S G A
D-null con  .....

      1760      1770      1780      1790      1800      1810      1820
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  TCTTCACAGGGGTCCGTGCAAGGGGCGTGCCAGCACAGCACATCTTCTCCGCAGCAGCAGCACAAGGGT
            S S Q G S V Q G A C Q H S T S S P Q Q Q A Q G C
D-null con  .....A.....

      1830      1840      1850      1860      1870      1880      1890
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  GCCAAGCTTCTTCACCAAGCAAGGGCTAGGGTCGTTGTACTACCCGAGTGGAGCTTATACACAACAGAA
            Q A S S P K Q G L G S L Y Y P S G A Y T Q Q K
D-null con  .....

      1900      1910      1920      1930      1940      1950      1960
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  ACCAGGGCAAGGGTACAACCCAGGTGGAACCTTCTCCGCTGCACCAGCAAGGGGAGGGTTCGGCGGCGGG
            P G Q G Y N P G G T S P L H Q Q G G G F G G G
D-null con  .....

      1970      1980      1990      2000      2010      2020      2030
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  TTAACGACGGAGCAACCGCAGGGAGGAAAGCAGCCATTCCATTGCCAGCAAACCACTGTCTCCCCTCACC
            L T T E Q P Q G G K Q P F H C Q Q T T V S P H Q
D-null con  .....

      2040      2050      2060      2070      2080      2090      2100
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
Sloop con  AGGGTCAGCAAACCACTGTTTCCCCTCATCAGGGTCAGCAAACCACTGTCTCCCCTCATCAGGGTCAGCA
            G Q Q T T V S P H Q G Q Q T T V S P H Q G Q Q
D-null con  .....C.....

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Figure 4 (continued)

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	2110	2120	2130	2140	2150	2160	2170
Sloop con	AACCACCTGCTCCCTCACCAGGGTCAGCAAACCACCGTCTCCCTCACCAGGGTCAGCAAACCACCGTC						
D-null con	T T V S P H Q Q Q T T V S P H Q Q Q T T V						
	2180	2190	2200	2210	2220	2230	2240
Sloop con	TCCCCTCATCAGGGTCAGCAAACCACCTGTCTCCCTCATCCGGGTCAGCAAACCACCTGTCTCCCCTCATC						
D-null con	S P H Q G Q Q T T V S P H P G Q Q T T V S P H Q						
	2250	2260	2270	2280	2290	2300	2310
Sloop con	AGGGTCAGCAAACCACCTGTCTCCCTCATCCGGGTCAGCAAACCACCTGTCTCCCTCATCAGGGTCAGCA						
D-null con	G Q Q T T V S P H P G Q Q T T V S P H Q G Q Q						
	2320	2330	2340	2350	2360	2370	2380
Sloop con	AACCACCTGCTCCCTCATCAGGGTCAGCAAACCACCGTCTCCCTCATCAGGGTCAGCAAACCACCGTC						
D-null con	T T V S P H Q G Q Q T T V S P H Q G Q Q T T V						
	2390	2400	2410	2420	2430	2440	2450
Sloop con	TCCCCTCATCAGGGTCAGCAAACCACCGTCTCCCTCATCAGGGTCAGCAGCCCGGCGAGCAGCCTTGCG						
D-null con	S P H Q G Q Q T T V S P H Q G Q Q P G E Q P C G						
	2460	2470	2480	2490	2500	2510	2520
Sloop con	GTTTCCCTGGCCAGCAAACCACCGTGTCTCTGCACCATGGTCAGCAGTCCAACGAGTTGTACTACGGCAG						
D-null con	F P G Q Q T T V S L H H G Q Q S N E L Y Y G S						
	2530	2540	2550	2560	2570	2580	2590
Sloop con	CCCATACCATGTTAGCGTGGAGCAGCCGTCGGCCAGCCTAAAGGTAGCAAAGGCGCAGCAGCTCGCGGCG						
D-null con	P Y H V S V E Q P S A S L K V A K A Q Q L A A						
	2600	2610	2620	2630	2640	2650	2660
Sloop con	CAGCTGCCGGCAATGTGTGGCTGGAGGGCGGCGGCGCTGTTGGCCAGCCAGTAGTAGAACTCTGGCA						
D-null con	Q L P A M C R L E G G G G L L A S Q *						
	2670	2680	2690	2700	2710	2720	2730
Sloop con	GCTCGCATGGTGCTTGGGCATGCATGCATCTTAGCTATACAATAAACGTGACGTGTGCTTGCAGTTTTC						
D-null con	C						
	2740	2750	2760	2770	2780	2790	2800
Sloop con	ATGTAAGTAGGGTAAACCCCAACAATAATGCAAAACGGAAAGCTTCTCCATCCAAAAAAGAACAAACT						
D-null con							
	2810	2820	2830	2840			
Sloop con	GGTGCTATATATAGTATGCGCTACATGTCTCAGCTCATTGTCAG						
D-null con							

Figure 4 (continued)

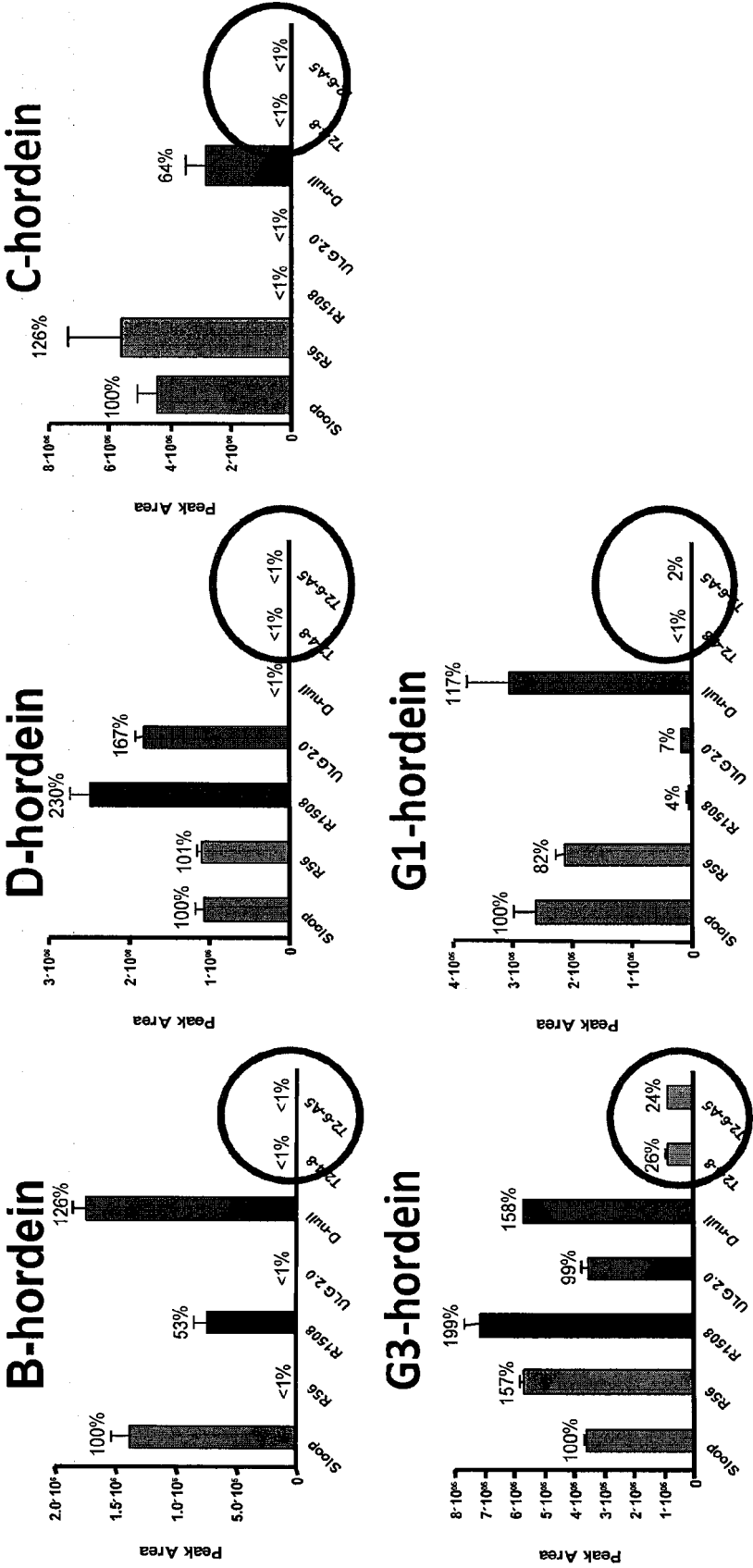


Figure 5

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MRM Analysis of Triple-Null Flour

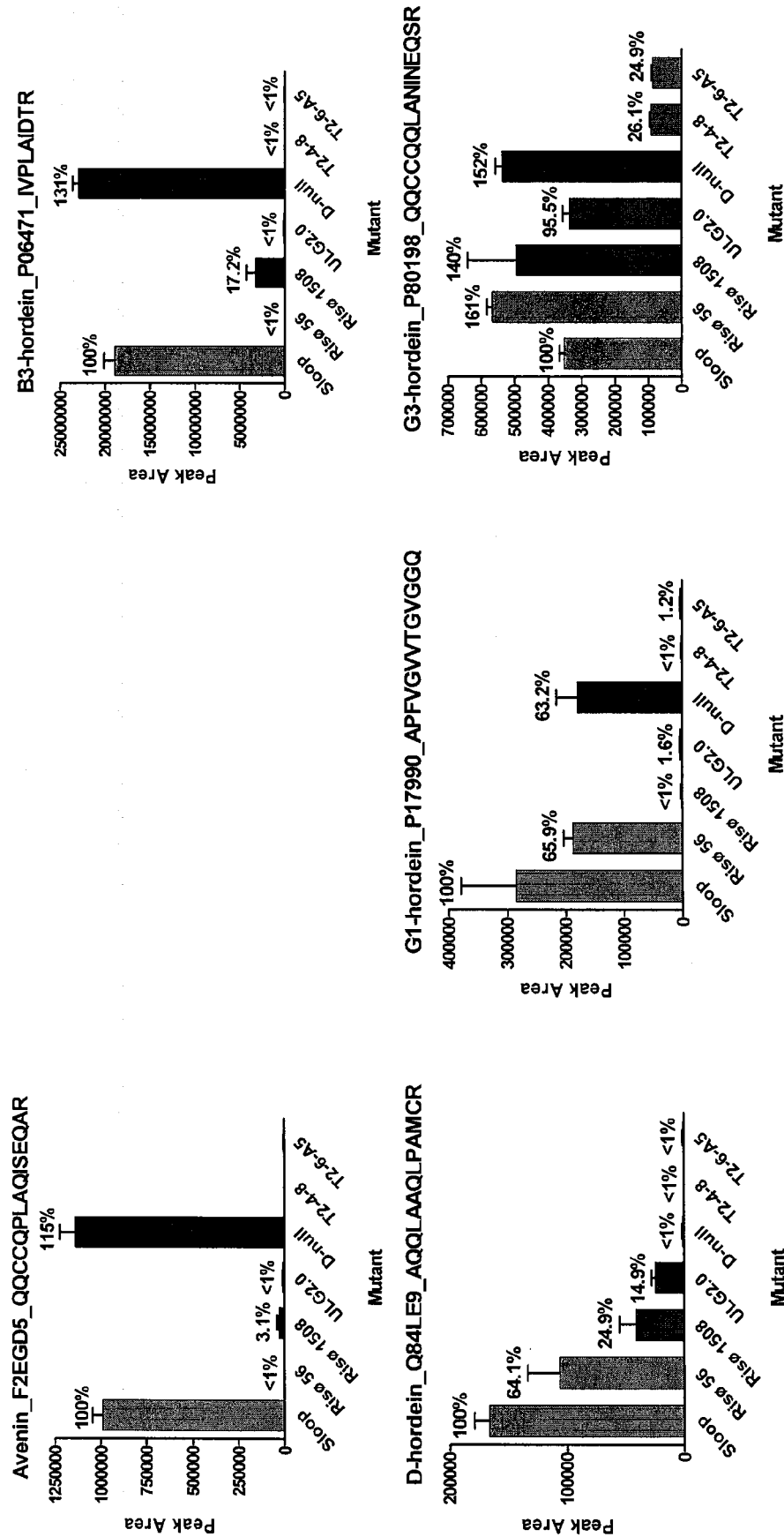


Figure 6

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MRM Analysis of Triple Null Beers

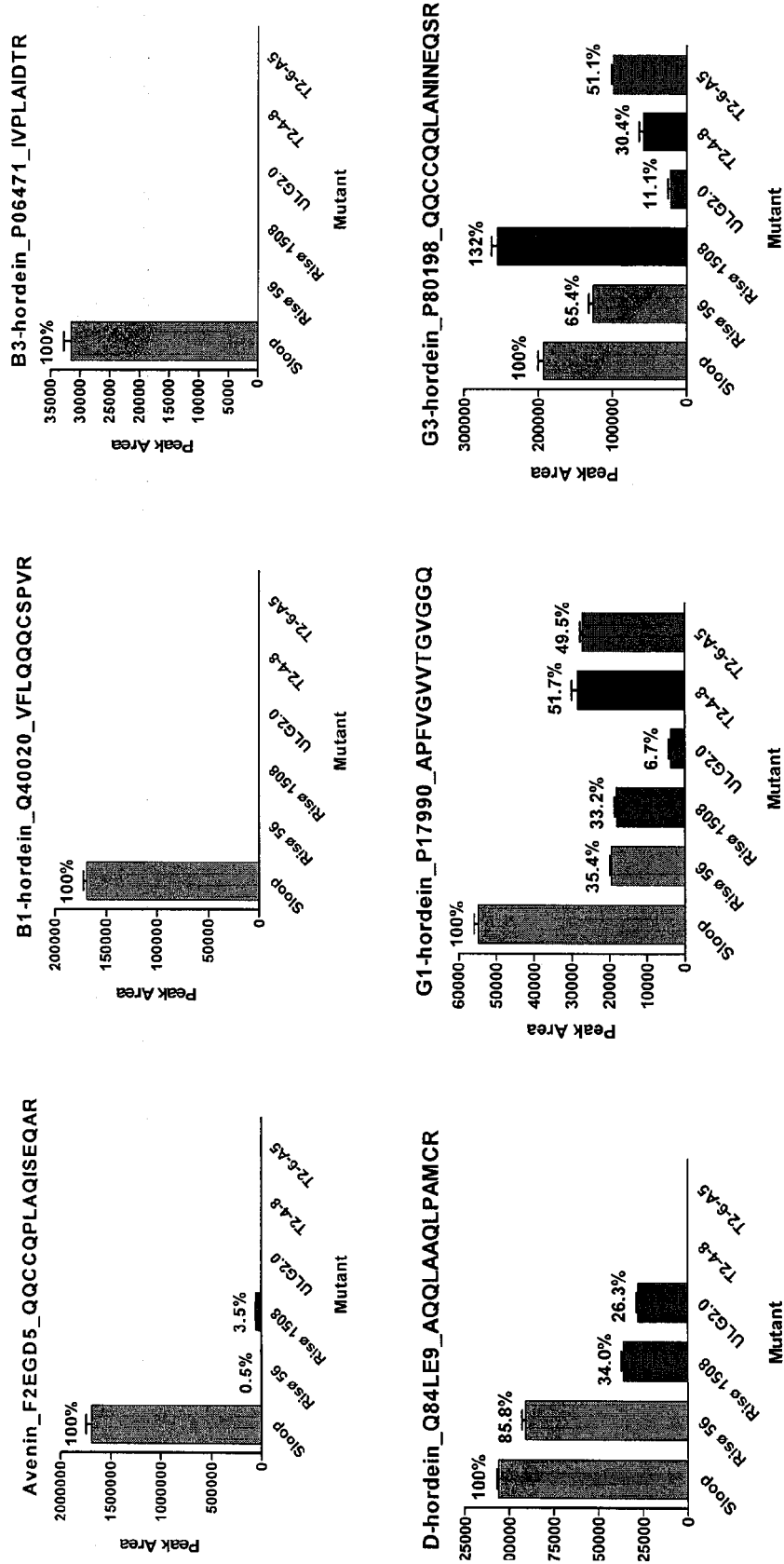


Figure 7

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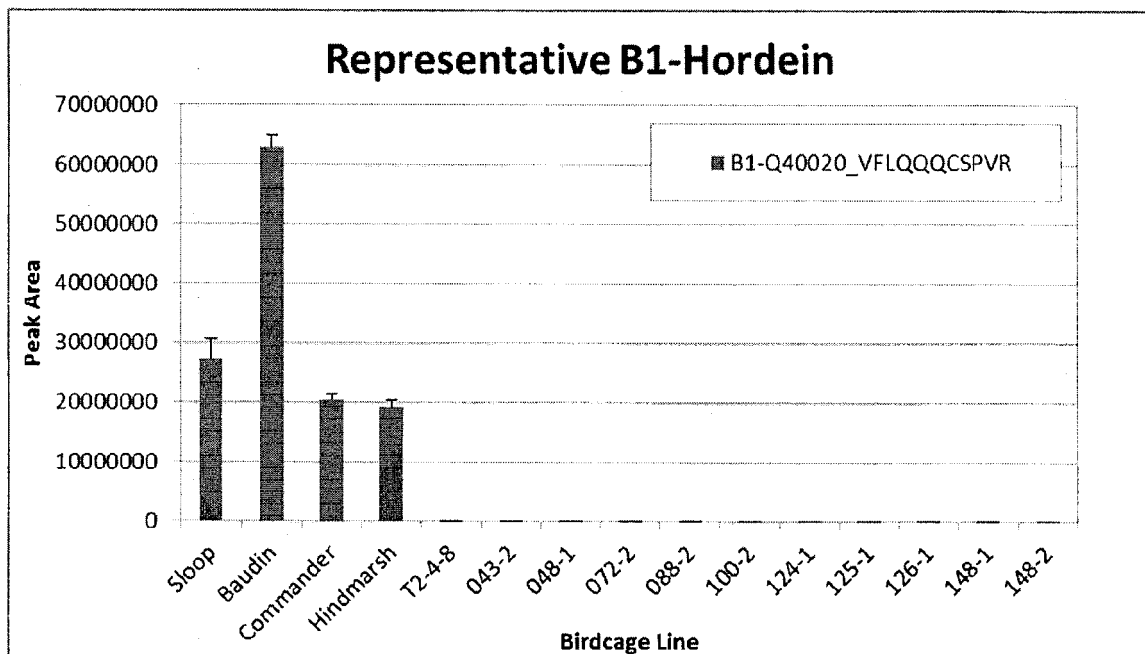
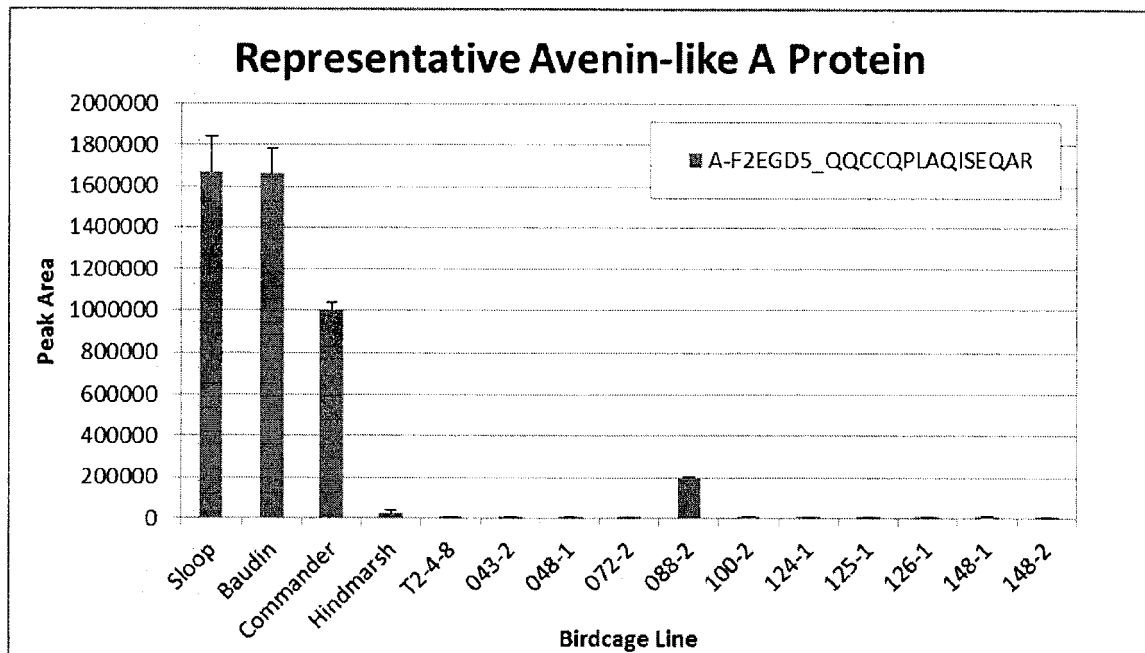


Figure 8

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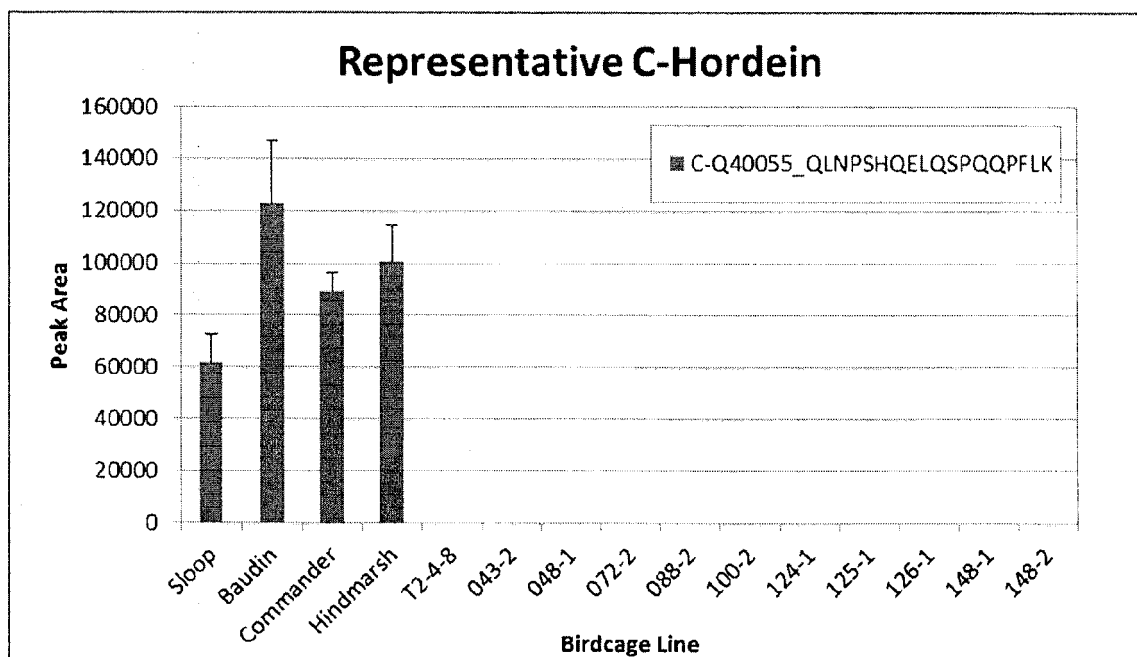
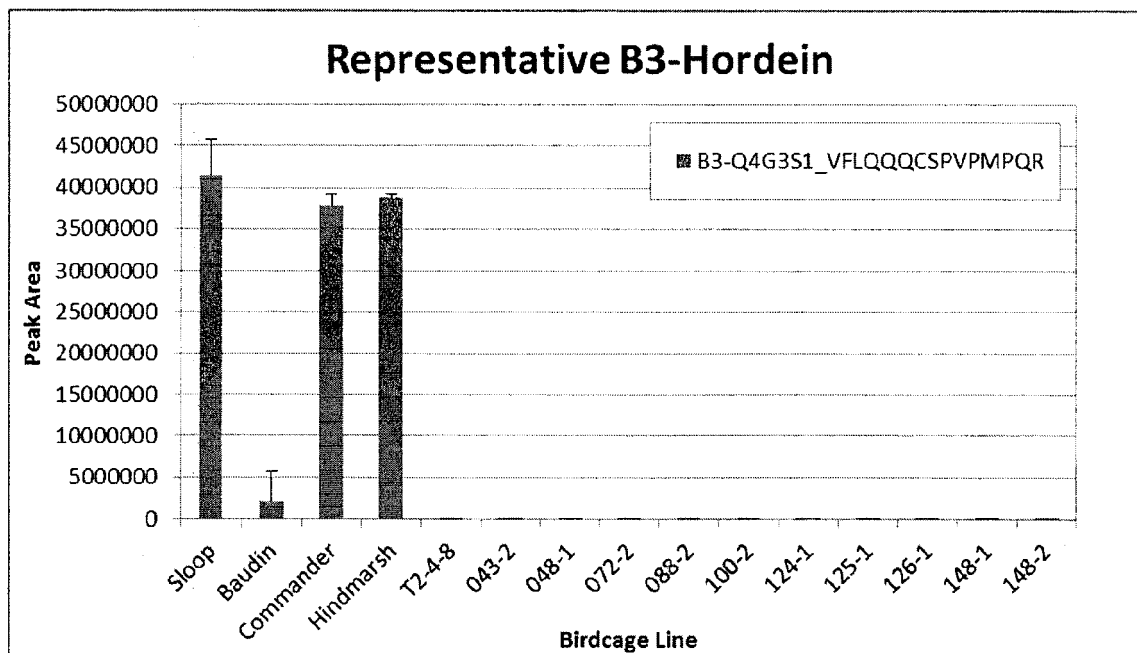
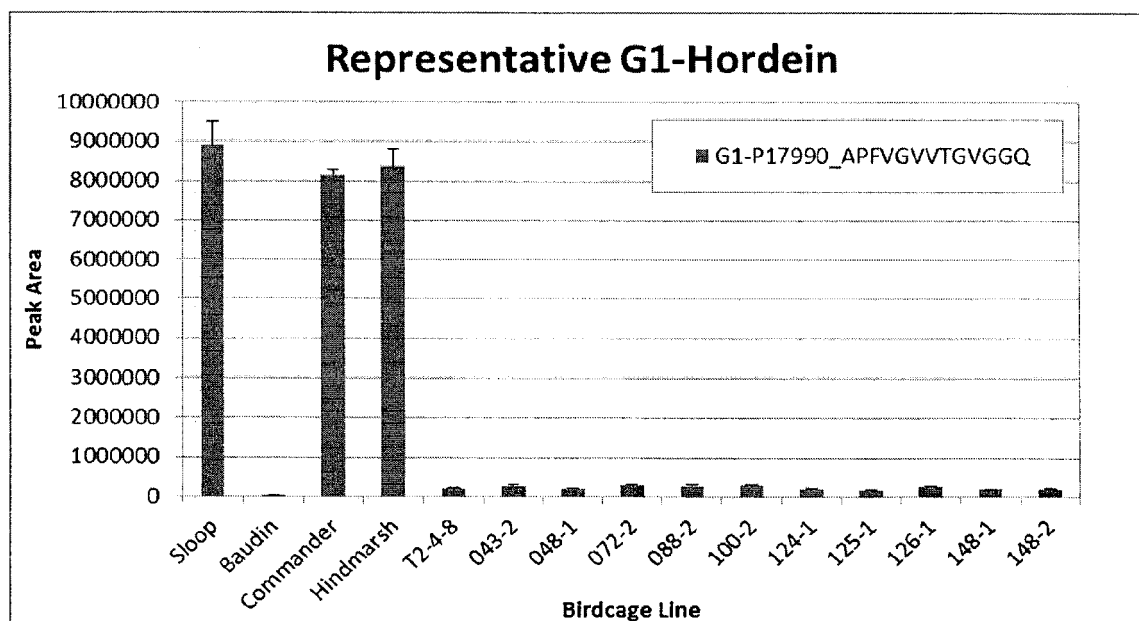
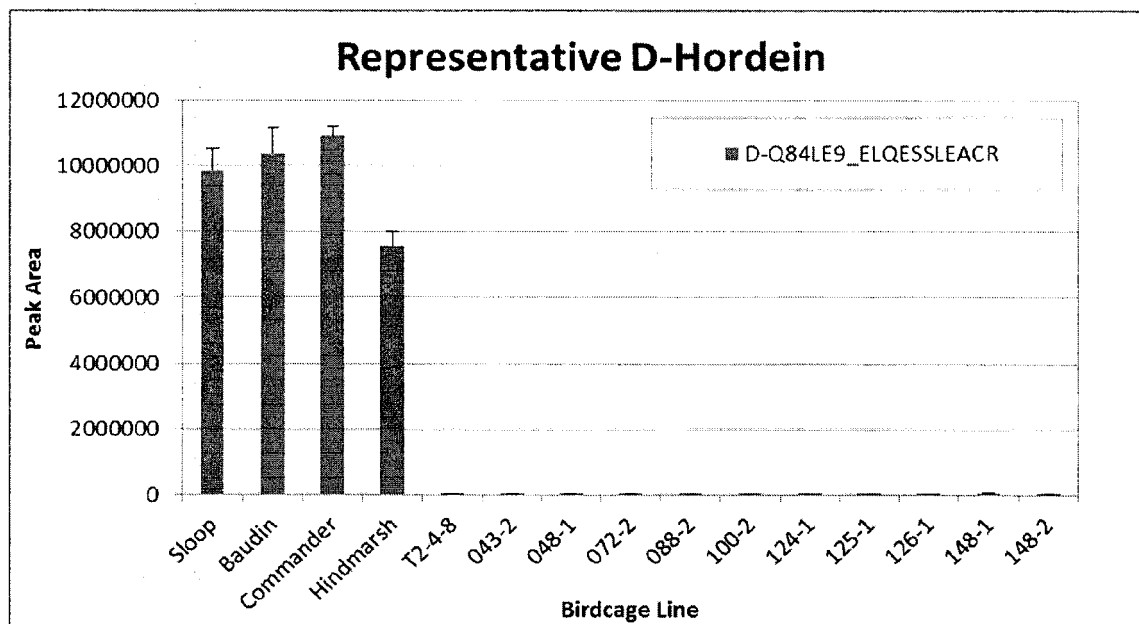
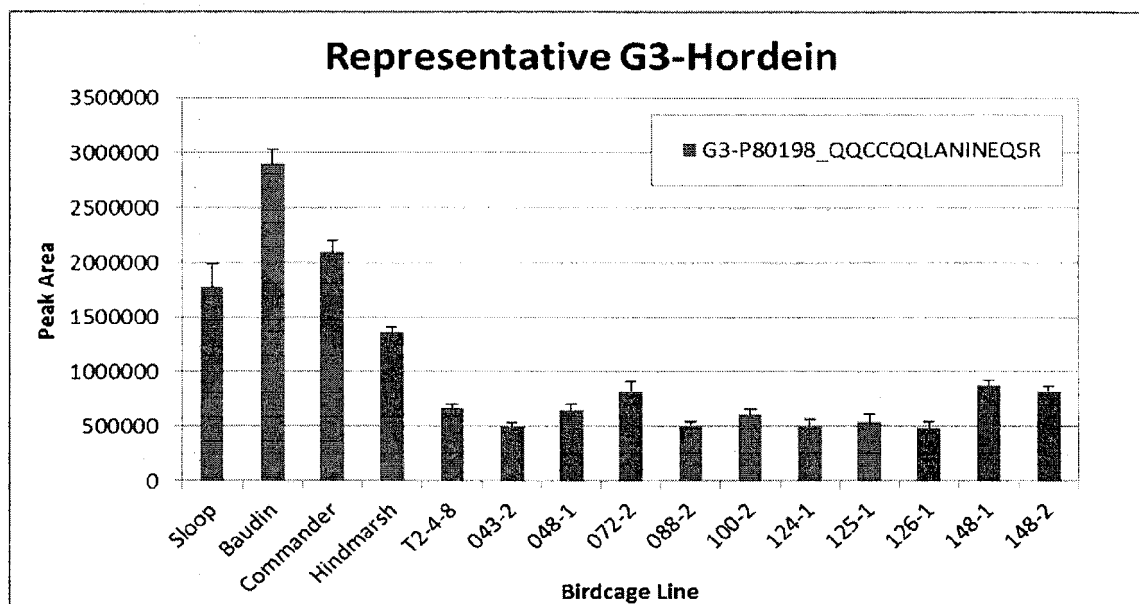


Figure 8 (continued)

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**Figure 8 (continued)**

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**Figure 8 (continued)**