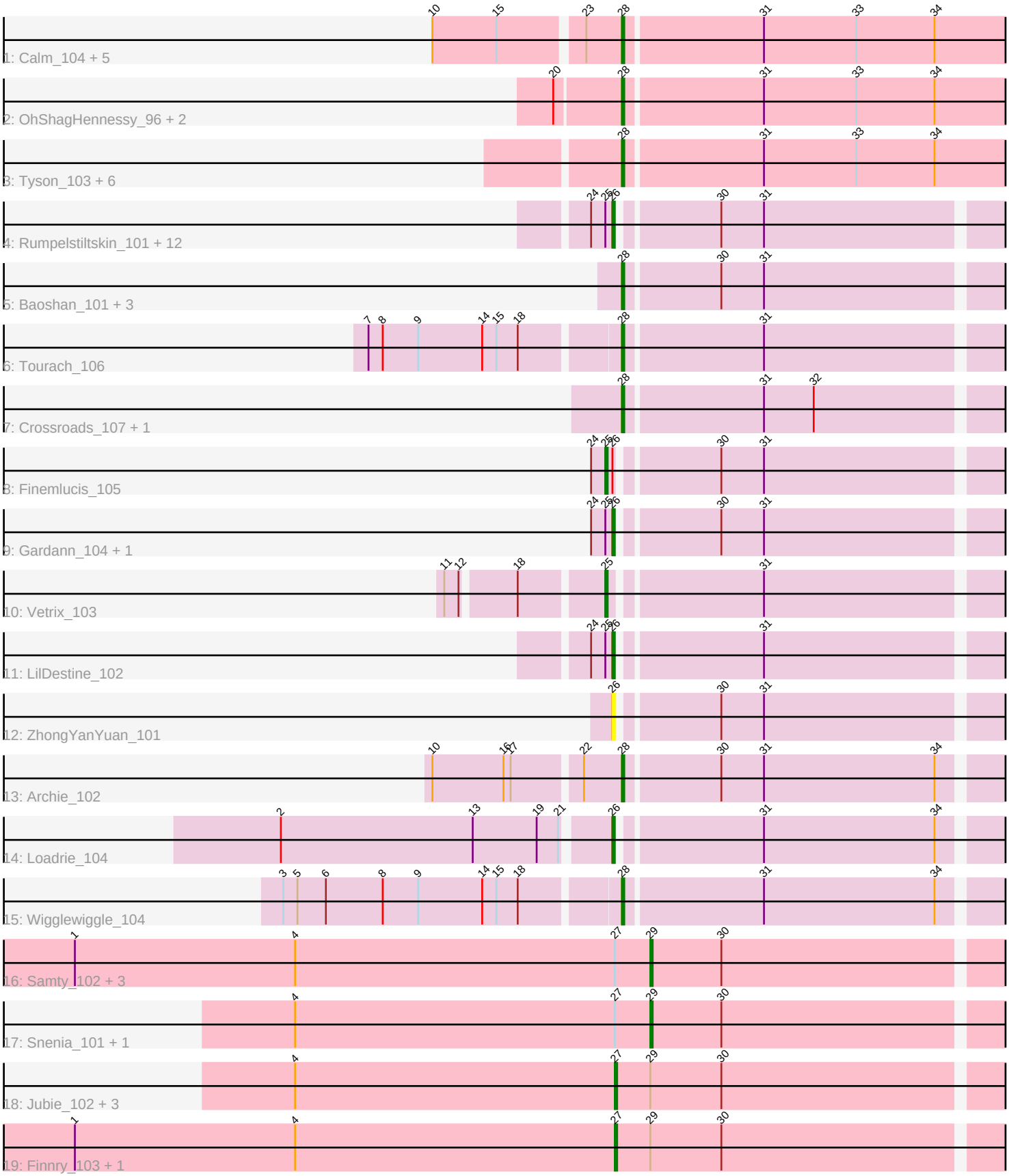
Pham 85602


1: Calm_104 + 5
10 15 23 28 31 33 34
2: OhShagHennessy_96 + 2
20 28 31 33 34
3: Tyson_103 + 6
28 31 33 34
4: Rumpelstiltskin_101 + 12
24 25 26 30 31
5: Baoshan_101 + 3
28 30 31
6: Tourach_106
7 8 9 14 15 18 28 31
7: Crossroads_107 + 1
28 31 32
8: Finemlucis_105
24 25 26 30 31
9: Gardann_104 + 1
24 25 26 30 31
10: Vetrix_103
11 12 18 25 31
11: LilDestine_102
24 25 26 31
12: ZhongYanYuan_101
26 30 31
13: Archie_102
10 16 17 22 28 30 31 34
14: Loadrie_104
2 13 19 21 26 31 34
15: Wigglewiggle_104
3 5 6 8 9 14 15 18 28 31 34
16: Samty_102 + 3
1 4 27 29 30
17: Snenia_101 + 1
4 27 29 30
18: Jubie_102 + 3
4 27 29 30
19: Finnry_103 + 1
1 4 27 29 30

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 85602 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85602 has 57 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Calm_104, DirkDirk_98, MAckerman_98, Enceladus_98, Halena_100, Zaria_103
• Track 2 : OhShagHennessy_96, Appletree2_99, Wamburgrxpress_99
• Track 3 : Tyson_103, Acquire49_101, Wyatt2_102, CicholasNage_97, Rose5_102, LeBron_100, Silverleaf_99
• Track 4 : Rumpelstiltskin_101, Breezona_104, Itos_104, Miley16_104, DrSeegs_103, Gabriela_104, BobsGarage_103, BigCheese_103, Netyap_102, Lewan_104, Zakai_105, Faith1_103, Winky_104
• Track 5 : Baoshan_101, GuuelaD_100, Wilder_104, Kahlid_104
• Track 6 : Tourach_106
• Track 7 : Crossroads_107, MkaliMitinis3_107
• Track 8 : Finemlucis_105
• Track 9 : Gardann_104, Nicholasp3_105
• Track 10 : Vetrix_103
• Track 11 : LilDestine_102
• Track 12 : ZhongYanYuan_101
• Track 13 : Archie_102
• Track 14 : Loadrie_104
• Track 15 : Wigglewiggle_104
• Track 16 : Samty_102, Moostard_99, Kingsolomon_100, Nicholas_100
• Track 17 : Snenia_101, Lumos_102
• Track 18 : Jubie_102, Jobypre_103, Clautastrophe_101, MsGreen_103
• Track 19 : Finnry_103, Bellis_101

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 28, it was called in 23 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_101, Appletree2_99, Archie_102, Baoshan_101, Calm_104, CicholasNage_97, Crossroads_107, DirkDirk_98, Enceladus_98, GuuelaD_100, Halena_100, Kahlid_104, LeBron_100, MAckerman_98, MkaliMitinis3_107, OhShagHennessy_96, Rose5_102, Silverleaf_99, Tourach_106, Tyson_103,

Wamburgrxpress_99, Wigglewiggle_104, Wilder_104, Wyatt2_102, Zaria_103,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Bellis_101, BigCheese_103, BobsGarage_103, Breezona_104, Clautastrophe_101, DrSeegs_103, Faith1_103, Finemlucis_105, Finnry_103, Gabriela_104, Gardann_104, Itos_104, Jobypre_103, Jubie_102, Kingsolomon_100, Lewan_104, LilDestine_102, Loadrie_104, Lumos_102, Miley16_104, Moostard_99, MsGreen_103, Netyap_102, Nicholas_100, Nicholasp3_105, Rumpelstiltskin_101, Samty_102, Snenia_101, Vetrix_103, Winky_104, Zakai_105, ZhongYanYuan_101,

Summary by start number:

Start 25:
• Found in 18 of 57 (31.6%) of genes in pham
• Manual Annotations of this start: 2 of 52
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Finemlucis_105 (L2), Vetrix_103 (L2),

Start 26:
• Found in 19 of 57 (33.3%) of genes in pham
• Manual Annotations of this start: 17 of 52
• Called 94.7% of time when present
• Phage (with cluster) where this start called: BigCheese_103 (L2), BobsGarage_103 (L2), Breezona_104 (L2), DrSeegs_103 (L2), Faith1_103 (L2), Gabriela_104 (L2), Gardann_104 (L2), Itos_104 (L2), Lewan_104 (L2), LilDestine_102 (L2), Loadrie_104 (L2), Miley16_104 (L2), Netyap_102 (L2), Nicholasp3_105 (L2), Rumpelstiltskin_101 (L2), Winky_104 (L2), Zakai_105 (L2), ZhongYanYuan_101 (L2),

Start 27:
• Found in 12 of 57 (21.1%) of genes in pham
• Manual Annotations of this start: 4 of 52
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bellis_101 (L3), Clautastrophe_101 (L3), Finnry_103 (L3), Jobypre_103 (L3), Jubie_102 (L3), MsGreen_103 (L3),

Start 28:
• Found in 25 of 57 (43.9%) of genes in pham
• Manual Annotations of this start: 23 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acquire49_101 (L1), Appletree2_99 (L1), Archie_102 (L2), Baoshan_101 (L2), Calm_104 (L1), CicholasNage_97 (L1), Crossroads_107 (L2), DirkDirk_98 (L1), Enceladus_98 (L1), GuuelaD_100 (L2), Halena_100 (L1), Kahlid_104 (L2), LeBron_100 (L1), MAckerman_98 (L1), MkaliMitinis3_107 (L2), OhShagHennessy_96 (L1), Rose5_102 (L1), Silverleaf_99 (L1), Tourach_106 (L2), Tyson_103 (L1), Wamburgrxpress_99 (L1), Wigglewiggle_104 (L2), Wilder_104 (L2), Wyatt2_102 (L1), Zaria_103 (L1),

Start 29:
• Found in 12 of 57 (21.1%) of genes in pham
• Manual Annotations of this start: 6 of 52

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kingsolomon_100 (L3), Lumos_102 (L3), Moostard_99 (L3), Nicholas_100 (L3), Samty_102 (L3), Snenia_101 (L3),

Summary by clusters:

There are 3 clusters represented in this pham: L2, L3, L1,

Info for manual annotations of cluster L1:
•Start number 28 was manually annotated 15 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 25 was manually annotated 2 times for cluster L2.
•Start number 26 was manually annotated 17 times for cluster L2.
•Start number 28 was manually annotated 8 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 27 was manually annotated 4 times for cluster L3.
•Start number 29 was manually annotated 6 times for cluster L3.

Gene Information:

Gene: Acquire49_101 Start: 60999, Stop: 61181, Start Num: 28
Candidate Starts for Acquire49_101:
(Start: 28 @60999 has 23 MA's), (31, 61056), (33, 61095), (34, 61128),

Gene: Appletree2_99 Start: 60512, Stop: 60694, Start Num: 28
Candidate Starts for Appletree2_99:
(20, 60485), (Start: 28 @60512 has 23 MA's), (31, 60569), (33, 60608), (34, 60641),

Gene: Archie_102 Start: 62438, Stop: 62614, Start Num: 28
Candidate Starts for Archie_102:
(10, 62363), (16, 62393), (17, 62396), (22, 62423), (Start: 28 @62438 has 23 MA's), (30, 62477), (31, 62495), (34, 62567),

Gene: Baoshan_101 Start: 62958, Stop: 63134, Start Num: 28
Candidate Starts for Baoshan_101:
(Start: 28 @62958 has 23 MA's), (30, 62997), (31, 63015),

Gene: Bellis_101 Start: 62608, Stop: 62796, Start Num: 27
Candidate Starts for Bellis_101:
(1, 62380), (4, 62473), (Start: 27 @62608 has 4 MA's), (Start: 29 @62623 has 6 MA's), (30, 62653),

Gene: BigCheese_103 Start: 62821, Stop: 62997, Start Num: 26
Candidate Starts for BigCheese_103:
(24, 62812), (Start: 25 @62818 has 2 MA's), (Start: 26 @62821 has 17 MA's), (30, 62860), (31, 62878),

Gene: BobsGarage_103 Start: 62821, Stop: 62997, Start Num: 26
Candidate Starts for BobsGarage_103:

(24, 62812), (Start: 25 @62818 has 2 MA's), (Start: 26 @62821 has 17 MA's), (30, 62860), (31, 62878),

Gene: Breezona_104 Start: 63156, Stop: 63332, Start Num: 26
Candidate Starts for Breezona_104:
(24, 63147), (Start: 25 @63153 has 2 MA's), (Start: 26 @63156 has 17 MA's), (30, 63195), (31, 63213),

Gene: Calm_104 Start: 61544, Stop: 61726, Start Num: 28
Candidate Starts for Calm_104:
(10, 61469), (15, 61496), (23, 61529), (Start: 28 @61544 has 23 MA's), (31, 61601), (33, 61640), (34, 61673),

Gene: CicholasNage_97 Start: 60493, Stop: 60675, Start Num: 28
Candidate Starts for CicholasNage_97:
(Start: 28 @60493 has 23 MA's), (31, 60550), (33, 60589), (34, 60622),

Gene: Clautastrophe_101 Start: 62603, Stop: 62791, Start Num: 27
Candidate Starts for Clautastrophe_101:
(4, 62468), (Start: 27 @62603 has 4 MA's), (Start: 29 @62618 has 6 MA's), (30, 62648),

Gene: Crossroads_107 Start: 62982, Stop: 63164, Start Num: 28
Candidate Starts for Crossroads_107:
(Start: 28 @62982 has 23 MA's), (31, 63039), (32, 63060),

Gene: DirkDirk_98 Start: 60370, Stop: 60552, Start Num: 28
Candidate Starts for DirkDirk_98:
(10, 60295), (15, 60322), (23, 60355), (Start: 28 @60370 has 23 MA's), (31, 60427), (33, 60466), (34, 60499),

Gene: DrSeegs_103 Start: 63156, Stop: 63332, Start Num: 26
Candidate Starts for DrSeegs_103:
(24, 63147), (Start: 25 @63153 has 2 MA's), (Start: 26 @63156 has 17 MA's), (30, 63195), (31, 63213),

Gene: Enceladus_98 Start: 60668, Stop: 60850, Start Num: 28
Candidate Starts for Enceladus_98:
(10, 60593), (15, 60620), (23, 60653), (Start: 28 @60668 has 23 MA's), (31, 60725), (33, 60764), (34, 60797),

Gene: Faith1_103 Start: 62464, Stop: 62640, Start Num: 26
Candidate Starts for Faith1_103:
(24, 62455), (Start: 25 @62461 has 2 MA's), (Start: 26 @62464 has 17 MA's), (30, 62503), (31, 62521),

Gene: Finemlucis_105 Start: 63620, Stop: 63799, Start Num: 25
Candidate Starts for Finemlucis_105:
(24, 63614), (Start: 25 @63620 has 2 MA's), (Start: 26 @63623 has 17 MA's), (30, 63662), (31, 63680),

Gene: Finnry_103 Start: 62956, Stop: 63144, Start Num: 27
Candidate Starts for Finnry_103:
(1, 62728), (4, 62821), (Start: 27 @62956 has 4 MA's), (Start: 29 @62971 has 6 MA's), (30, 63001),

Gene: Gabriela_104 Start: 61810, Stop: 61986, Start Num: 26
Candidate Starts for Gabriela_104:
(24, 61801), (Start: 25 @61807 has 2 MA's), (Start: 26 @61810 has 17 MA's), (30, 61849), (31, 61867),

Gene: Gardann_104 Start: 62662, Stop: 62838, Start Num: 26
Candidate Starts for Gardann_104:
(24, 62653), (Start: 25 @62659 has 2 MA's), (Start: 26 @62662 has 17 MA's), (30, 62701), (31, 62719),

Gene: GuuelaD_100 Start: 62549, Stop: 62725, Start Num: 28
Candidate Starts for GuuelaD_100:
(Start: 28 @62549 has 23 MA's), (30, 62588), (31, 62606),

Gene: Halena_100 Start: 60460, Stop: 60642, Start Num: 28
Candidate Starts for Halena_100:
(10, 60385), (15, 60412), (23, 60445), (Start: 28 @60460 has 23 MA's), (31, 60517), (33, 60556), (34, 60589),

Gene: Itos_104 Start: 61370, Stop: 61546, Start Num: 26
Candidate Starts for Itos_104:
(24, 61361), (Start: 25 @61367 has 2 MA's), (Start: 26 @61370 has 17 MA's), (30, 61409), (31, 61427),

Gene: Jobypre_103 Start: 62603, Stop: 62791, Start Num: 27
Candidate Starts for Jobypre_103:
(4, 62468), (Start: 27 @62603 has 4 MA's), (Start: 29 @62618 has 6 MA's), (30, 62648),

Gene: Jubie_102 Start: 62738, Stop: 62926, Start Num: 27
Candidate Starts for Jubie_102:
(4, 62603), (Start: 27 @62738 has 4 MA's), (Start: 29 @62753 has 6 MA's), (30, 62783),

Gene: Kahlid_104 Start: 62706, Stop: 62882, Start Num: 28
Candidate Starts for Kahlid_104:
(Start: 28 @62706 has 23 MA's), (30, 62745), (31, 62763),

Gene: Kingsolomon_100 Start: 62727, Stop: 62900, Start Num: 29
Candidate Starts for Kingsolomon_100:
(1, 62484), (4, 62577), (Start: 27 @62712 has 4 MA's), (Start: 29 @62727 has 6 MA's), (30, 62757),

Gene: LeBron_100 Start: 60601, Stop: 60783, Start Num: 28
Candidate Starts for LeBron_100:
(Start: 28 @60601 has 23 MA's), (31, 60658), (33, 60697), (34, 60730),

Gene: Lewan_104 Start: 62463, Stop: 62639, Start Num: 26
Candidate Starts for Lewan_104:
(24, 62454), (Start: 25 @62460 has 2 MA's), (Start: 26 @62463 has 17 MA's), (30, 62502), (31, 62520),

Gene: LilDestine_102 Start: 62134, Stop: 62310, Start Num: 26
Candidate Starts for LilDestine_102:
(24, 62125), (Start: 25 @62131 has 2 MA's), (Start: 26 @62134 has 17 MA's), (31, 62191),

Gene: Loadrie_104 Start: 62980, Stop: 63156, Start Num: 26
Candidate Starts for Loadrie_104:
(2, 62845), (13, 62926), (19, 62953), (21, 62962), (Start: 26 @62980 has 17 MA's), (31, 63037), (34, 63109),

Gene: Lumos_102 Start: 62615, Stop: 62788, Start Num: 29
Candidate Starts for Lumos_102:
(4, 62465), (Start: 27 @62600 has 4 MA's), (Start: 29 @62615 has 6 MA's), (30, 62645),

Gene: MAckerman_98 Start: 60453, Stop: 60635, Start Num: 28
Candidate Starts for MAckerman_98:
(10, 60378), (15, 60405), (23, 60438), (Start: 28 @60453 has 23 MA's), (31, 60510), (33, 60549), (34, 60582),

Gene: Miley16_104 Start: 63156, Stop: 63332, Start Num: 26
Candidate Starts for Miley16_104:
(24, 63147), (Start: 25 @63153 has 2 MA's), (Start: 26 @63156 has 17 MA's), (30, 63195), (31, 63213),

Gene: MkaliMitinis3_107 Start: 62962, Stop: 63144, Start Num: 28
Candidate Starts for MkaliMitinis3_107:
(Start: 28 @62962 has 23 MA's), (31, 63019), (32, 63040),

Gene: Moostard_99 Start: 62722, Stop: 62895, Start Num: 29
Candidate Starts for Moostard_99:
(1, 62479), (4, 62572), (Start: 27 @62707 has 4 MA's), (Start: 29 @62722 has 6 MA's), (30, 62752),

Gene: MsGreen_103 Start: 62602, Stop: 62790, Start Num: 27
Candidate Starts for MsGreen_103:
(4, 62467), (Start: 27 @62602 has 4 MA's), (Start: 29 @62617 has 6 MA's), (30, 62647),

Gene: Netyap_102 Start: 62870, Stop: 63046, Start Num: 26
Candidate Starts for Netyap_102:
(24, 62861), (Start: 25 @62867 has 2 MA's), (Start: 26 @62870 has 17 MA's), (30, 62909), (31, 62927),

Gene: Nicholas_100 Start: 62727, Stop: 62900, Start Num: 29
Candidate Starts for Nicholas_100:
(1, 62484), (4, 62577), (Start: 27 @62712 has 4 MA's), (Start: 29 @62727 has 6 MA's), (30, 62757),

Gene: Nicholasp3_105 Start: 62662, Stop: 62838, Start Num: 26
Candidate Starts for Nicholasp3_105:
(24, 62653), (Start: 25 @62659 has 2 MA's), (Start: 26 @62662 has 17 MA's), (30, 62701), (31, 62719),

Gene: OhShagHennessy_96 Start: 59929, Stop: 60111, Start Num: 28
Candidate Starts for OhShagHennessy_96:
(20, 59902), (Start: 28 @59929 has 23 MA's), (31, 59986), (33, 60025), (34, 60058),

Gene: Rose5_102 Start: 61273, Stop: 61455, Start Num: 28
Candidate Starts for Rose5_102:
(Start: 28 @61273 has 23 MA's), (31, 61330), (33, 61369), (34, 61402),

Gene: Rumpelstiltskin_101 Start: 62455, Stop: 62631, Start Num: 26
Candidate Starts for Rumpelstiltskin_101:
(24, 62446), (Start: 25 @62452 has 2 MA's), (Start: 26 @62455 has 17 MA's), (30, 62494), (31, 62512),

Gene: Samty_102 Start: 62715, Stop: 62888, Start Num: 29
Candidate Starts for Samty_102:
(1, 62472), (4, 62565), (Start: 27 @62700 has 4 MA's), (Start: 29 @62715 has 6 MA's), (30, 62745),

Gene: Silverleaf_99 Start: 60413, Stop: 60595, Start Num: 28
Candidate Starts for Silverleaf_99:
(Start: 28 @60413 has 23 MA's), (31, 60470), (33, 60509), (34, 60542),

Gene: Snenia_101 Start: 62619, Stop: 62792, Start Num: 29
Candidate Starts for Snenia_101:
(4, 62469), (Start: 27 @62604 has 4 MA's), (Start: 29 @62619 has 6 MA's), (30, 62649),

Gene: Tourach_106 Start: 63838, Stop: 64020, Start Num: 28
Candidate Starts for Tourach_106:
(7, 63736), (8, 63742), (9, 63757), (14, 63784), (15, 63790), (18, 63799), (Start: 28 @63838 has 23 MA's), (31, 63895),

Gene: Tyson_103 Start: 61704, Stop: 61886, Start Num: 28
Candidate Starts for Tyson_103:
(Start: 28 @61704 has 23 MA's), (31, 61761), (33, 61800), (34, 61833),

Gene: Vetrix_103 Start: 62927, Stop: 63106, Start Num: 25
Candidate Starts for Vetrix_103:
(11, 62867), (12, 62873), (18, 62894), (Start: 25 @62927 has 2 MA's), (31, 62987),

Gene: Wamburgrxpress_99 Start: 60813, Stop: 60995, Start Num: 28
Candidate Starts for Wamburgrxpress_99:
(20, 60786), (Start: 28 @60813 has 23 MA's), (31, 60870), (33, 60909), (34, 60942),

Gene: Wigglewiggle_104 Start: 62576, Stop: 62752, Start Num: 28
Candidate Starts for Wigglewiggle_104:
(3, 62438), (5, 62444), (6, 62456), (8, 62480), (9, 62495), (14, 62522), (15, 62528), (18, 62537), (Start: 28 @62576 has 23 MA's), (31, 62633), (34, 62705),

Gene: Wilder_104 Start: 62560, Stop: 62736, Start Num: 28
Candidate Starts for Wilder_104:
(Start: 28 @62560 has 23 MA's), (30, 62599), (31, 62617),

Gene: Winky_104 Start: 63156, Stop: 63332, Start Num: 26
Candidate Starts for Winky_104:
(24, 63147), (Start: 25 @63153 has 2 MA's), (Start: 26 @63156 has 17 MA's), (30, 63195), (31, 63213),

Gene: Wyatt2_102 Start: 61367, Stop: 61549, Start Num: 28
Candidate Starts for Wyatt2_102:
(Start: 28 @61367 has 23 MA's), (31, 61424), (33, 61463), (34, 61496),

Gene: Zakai_105 Start: 62866, Stop: 63042, Start Num: 26
Candidate Starts for Zakai_105:
(24, 62857), (Start: 25 @62863 has 2 MA's), (Start: 26 @62866 has 17 MA's), (30, 62905), (31, 62923),

Gene: Zaria_103 Start: 61009, Stop: 61191, Start Num: 28
Candidate Starts for Zaria_103:
(10, 60934), (15, 60961), (23, 60994), (Start: 28 @61009 has 23 MA's), (31, 61066), (33, 61105), (34, 61138),

Gene: ZhongYanYuan_101 Start: 62706, Stop: 62882, Start Num: 26
Candidate Starts for ZhongYanYuan_101:
(Start: 26 @62706 has 17 MA's), (30, 62745), (31, 62763),