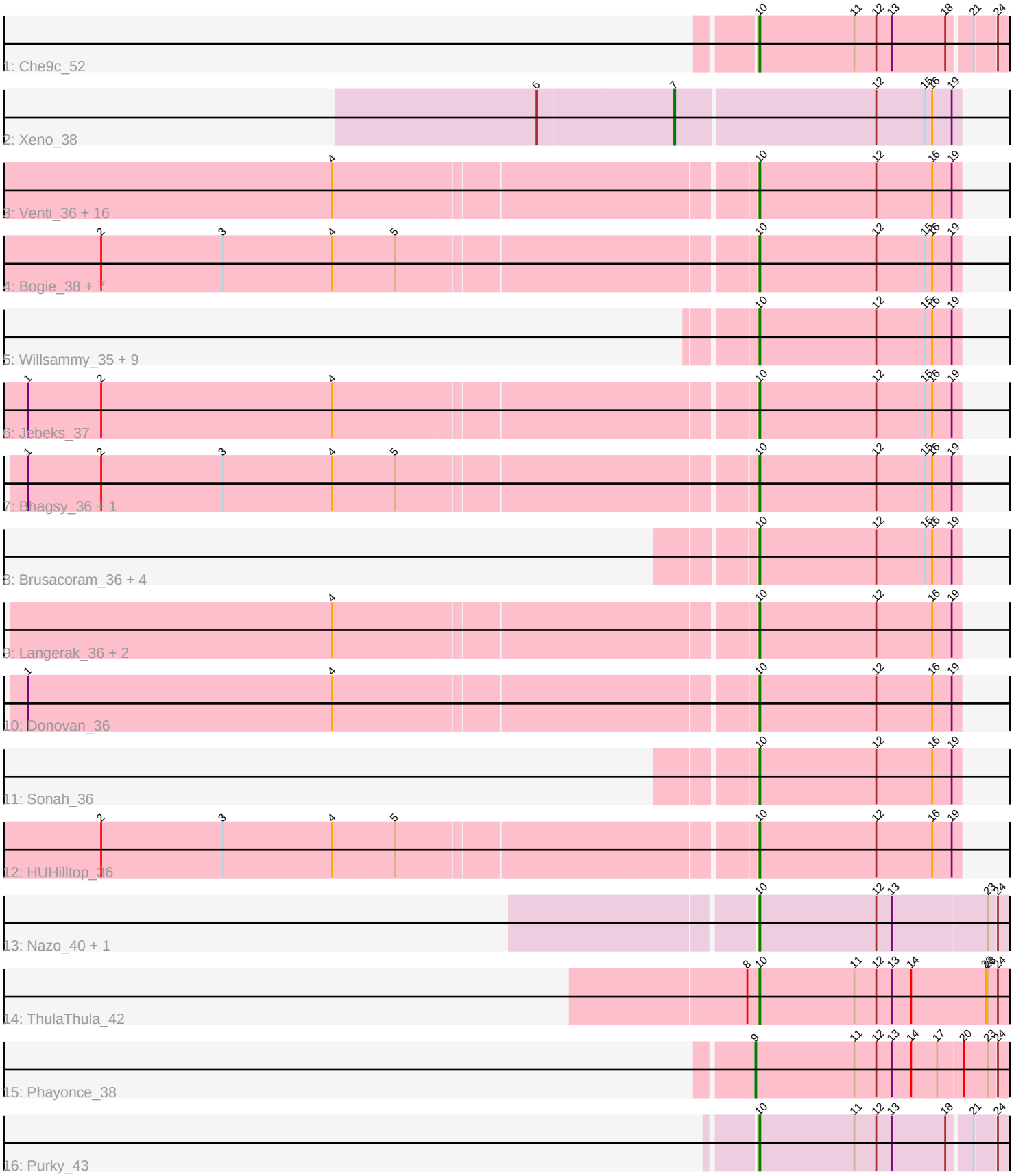
Pham 344057


1: Che9c_52
2: Xeno_38
3: Venti_36 + 16
4: Bogie_38 + 7
5: Willsammy_35 + 9
6: Jebeks_37
7: Bhagsy_36 + 1
8: Brusacoram_36 + 4
9: Langerak_36 + 2
10: Donovan_36
11: Sonah_36
12: HUHilltop_36
13: Nazo_40 + 1
14: ThulaThula_42
15: Phayonce_38
16: Purky_43

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 344057 Report

This analysis was run 11/14/26 on database version 672.

Pham number 344057 has 56 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Che9c_52
• Track 2 : Xeno_38
• Track 3 : Venti_36, Necropolis_36, Majeke_36, Fishburne_36, Etoile_36, Dynamo_36, BronnyJr_36, Techage_36, Mangethe_36, Phineas_36, Zilizebeth_36, Chubbello_36, Phegasus_36, Kari_36, Vidya_36, Bartholomew_35, FirstPlacePfu_36
• Track 4 : Bogie_38, Pygmy_38, Bunnies_36, Ksquared_36, Malithi_36, Camster_36, Shipwreck_38, Juniormint_36
• Track 5 : Willsammy_35, KilKor_36, Polkaroo_36, Phalm_36, Jung_35, Glaske_36, CactusJack_36, StressBall_36, Gavriela_36, Megiddo_36
• Track 6 : Jebeks_37
• Track 7 : Bhagsy_36, PeanutPie_36
• Track 8 : Brusacoram_36, GreaseLightnin_36, StevieRay_36, Thespis_36, Atcoo_36
• Track 9 : Langerak_36, Arib1_36, GaloreK_36
• Track 10 : Donovan_36
• Track 11 : Sonah_36
• Track 12 : HUHilltop_36
• Track 13 : Nazo_40, BigNuz_39
• Track 14 : ThulaThula_42
• Track 15 : Phayonce_38
• Track 16 : Purky_43

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

The start number called the most often in the published annotations is 10, it was called in 49 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_36, Atcoo_36, Bartholomew_35, Bhagsy_36, BigNuz_39, Bogie_38, BronnyJr_36, Brusacoram_36, Bunnies_36, CactusJack_36, Camster_36, Che9c_52, Chubbello_36, Donovan_36, Dynamo_36, Etoile_36, FirstPlacePfu_36, Fishburne_36, GaloreK_36, Gavriela_36, Glaske_36, GreaseLightnin_36, HUHilltop_36, Jebeks_37, Jung_35, Juniormint_36, Kari_36, KilKor_36, Ksquared_36, Langerak_36, Majeke_36, Malithi_36, Mangethe_36, Megiddo_36,

Nazo_40, Necropolis_36, PeanutPie_36, Phalm_36, Phegasus_36, Phineas_36, Polkaroo_36, Purky_43, Pygmy_38, Shipwreck_38, Sonah_36, StevieRay_36, StressBall_36, Techage_36, Thespis_36, ThulaThula_42, Venti_36, Vidya_36, Willsammy_35, Zilizebeth_36,

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

Genes that do not have the "Most Annotated" start:
• Phayonce_38, Xeno_38,

Summary by start number:

Start 7:
• Found in 1 of 56 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Xeno_38 (N),

Start 9:
• Found in 1 of 56 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phayonce_38 (P5),

Start 10:
• Found in 54 of 56 (96.4%) of genes in pham
• Manual Annotations of this start: 49 of 51
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arib1_36 (P1), Atcoo_36 (P1), Bartholomew_35 (P1), Bhagsy_36 (P1), BigNuz_39 (P4), Bogie_38 (P1), BronnyJr_36 (P1), Brusacoram_36 (P1), Bunnies_36 (P1), CactusJack_36 (P1), Camster_36 (P1), Che9c_52 (I2), Chubbello_36 (P1), Donovan_36 (P1), Dynamo_36 (P1), Etoile_36 (P1), FirstPlacePfu_36 (P1), Fishburne_36 (P1), GaloreK_36 (P1), Gavriela_36 (P1), Glaske_36 (P1), GreaseLightnin_36 (P1), HUHilltop_36 (P1), Jebeks_37 (P1), Jung_35 (P1), Juniormint_36 (P1), Kari_36 (P1), KilKor_36 (P1), Ksquared_36 (P1), Langerak_36 (P1), Majeke_36 (P1), Malithi_36 (P1), Mangethe_36 (P1), Megiddo_36 (P1), Nazo_40 (P4), Necropolis_36 (P1), PeanutPie_36 (P1), Phalm_36 (P1), Phegasus_36 (P1), Phineas_36 (P1), Polkaroo_36 (P1), Purky_43 (P6), Pygmy_38 (P1), Shipwreck_38 (P1), Sonah_36 (P1), StevieRay_36 (P1), StressBall_36 (P1), Techage_36 (P1), Thespis_36 (P1), ThulaThula_42 (P5), Venti_36 (P1), Vidya_36 (P1), Willsammy_35 (P1), Zilizebeth_36 (P1),

Summary by clusters:

There are 6 clusters represented in this pham: P1, P6, P4, P5, I2, N,

Info for manual annotations of cluster I2:
•Start number 10 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:
•Start number 7 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:
•Start number 10 was manually annotated 44 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 10 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 9 was manually annotated 1 time for cluster P5.
•Start number 10 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:
•Start number 10 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: Arib1_36 Start: 29101, Stop: 29349, Start Num: 10
Candidate Starts for Arib1_36:
(4, 28612), (Start: 10 @29101 has 49 MA's), (12, 29245), (16, 29314), (19, 29338),

Gene: Atcoo_36 Start: 29585, Stop: 29833, Start Num: 10
Candidate Starts for Atcoo_36:
(Start: 10 @29585 has 49 MA's), (12, 29729), (15, 29789), (16, 29798), (19, 29822),

Gene: Bartholomew_35 Start: 29098, Stop: 29346, Start Num: 10
Candidate Starts for Bartholomew_35:
(4, 28609), (Start: 10 @29098 has 49 MA's), (12, 29242), (16, 29311), (19, 29335),

Gene: Bhagsy_36 Start: 29091, Stop: 29339, Start Num: 10
Candidate Starts for Bhagsy_36:
(1, 28227), (2, 28317), (3, 28467), (4, 28602), (5, 28677), (Start: 10 @29091 has 49 MA's), (12, 29235), (15, 29295), (16, 29304), (19, 29328),

Gene: BigNuz_39 Start: 31156, Stop: 31452, Start Num: 10
Candidate Starts for BigNuz_39:
(Start: 10 @31156 has 49 MA's), (12, 31300), (13, 31318), (23, 31432), (24, 31441),

Gene: Bogie_38 Start: 30881, Stop: 31129, Start Num: 10
Candidate Starts for Bogie_38:
(2, 30107), (3, 30257), (4, 30392), (5, 30467), (Start: 10 @30881 has 49 MA's), (12, 31025), (15, 31085), (16, 31094), (19, 31118),

Gene: BronnyJr_36 Start: 29595, Stop: 29843, Start Num: 10
Candidate Starts for BronnyJr_36:
(4, 29106), (Start: 10 @29595 has 49 MA's), (12, 29739), (16, 29808), (19, 29832),

Gene: Brusacoram_36 Start: 29091, Stop: 29339, Start Num: 10
Candidate Starts for Brusacoram_36:
(Start: 10 @29091 has 49 MA's), (12, 29235), (15, 29295), (16, 29304), (19, 29328),

Gene: Bunnies_36 Start: 29112, Stop: 29360, Start Num: 10

Candidate Starts for Bunnies_36:
(2, 28338), (3, 28488), (4, 28623), (5, 28698), (Start: 10 @29112 has 49 MA's), (12, 29256), (15, 29316), (16, 29325), (19, 29349),

Gene: CactusJack_36 Start: 29352, Stop: 29600, Start Num: 10
Candidate Starts for CactusJack_36:
(Start: 10 @29352 has 49 MA's), (12, 29496), (15, 29556), (16, 29565), (19, 29589),

Gene: Camster_36 Start: 29128, Stop: 29376, Start Num: 10
Candidate Starts for Camster_36:
(2, 28354), (3, 28504), (4, 28639), (5, 28714), (Start: 10 @29128 has 49 MA's), (12, 29272), (15, 29332), (16, 29341), (19, 29365),

Gene: Che9c_52 Start: 40377, Stop: 40664, Start Num: 10
Candidate Starts for Che9c_52:
(Start: 10 @40377 has 49 MA's), (11, 40494), (12, 40521), (13, 40539), (18, 40605), (21, 40629), (24, 40653),

Gene: Chubbello_36 Start: 29094, Stop: 29342, Start Num: 10
Candidate Starts for Chubbello_36:
(4, 28605), (Start: 10 @29094 has 49 MA's), (12, 29238), (16, 29307), (19, 29331),

Gene: Donovan_36 Start: 29117, Stop: 29365, Start Num: 10
Candidate Starts for Donovan_36:
(1, 28253), (4, 28628), (Start: 10 @29117 has 49 MA's), (12, 29261), (16, 29330), (19, 29354),

Gene: Dynamo_36 Start: 29506, Stop: 29754, Start Num: 10
Candidate Starts for Dynamo_36:
(4, 29017), (Start: 10 @29506 has 49 MA's), (12, 29650), (16, 29719), (19, 29743),

Gene: Etoile_36 Start: 29098, Stop: 29346, Start Num: 10
Candidate Starts for Etoile_36:
(4, 28609), (Start: 10 @29098 has 49 MA's), (12, 29242), (16, 29311), (19, 29335),

Gene: FirstPlacePfu_36 Start: 29130, Stop: 29378, Start Num: 10
Candidate Starts for FirstPlacePfu_36:
(4, 28641), (Start: 10 @29130 has 49 MA's), (12, 29274), (16, 29343), (19, 29367),

Gene: Fishburne_36 Start: 29098, Stop: 29346, Start Num: 10
Candidate Starts for Fishburne_36:
(4, 28609), (Start: 10 @29098 has 49 MA's), (12, 29242), (16, 29311), (19, 29335),

Gene: GaloreK_36 Start: 29091, Stop: 29339, Start Num: 10
Candidate Starts for GaloreK_36:
(4, 28602), (Start: 10 @29091 has 49 MA's), (12, 29235), (16, 29304), (19, 29328),

Gene: Gavriela_36 Start: 29352, Stop: 29600, Start Num: 10
Candidate Starts for Gavriela_36:
(Start: 10 @29352 has 49 MA's), (12, 29496), (15, 29556), (16, 29565), (19, 29589),

Gene: Glaske_36 Start: 29352, Stop: 29600, Start Num: 10
Candidate Starts for Glaske_36:
(Start: 10 @29352 has 49 MA's), (12, 29496), (15, 29556), (16, 29565), (19, 29589),

Gene: GreaseLightnin_36 Start: 29338, Stop: 29586, Start Num: 10
Candidate Starts for GreaseLightnin_36:
(Start: 10 @29338 has 49 MA's), (12, 29482), (15, 29542), (16, 29551), (19, 29575),

Gene: HUHilltop_36 Start: 29128, Stop: 29376, Start Num: 10
Candidate Starts for HUHilltop_36:
(2, 28354), (3, 28504), (4, 28639), (5, 28714), (Start: 10 @29128 has 49 MA's), (12, 29272), (16, 29341), (19, 29365),

Gene: Jebeks_37 Start: 29083, Stop: 29331, Start Num: 10
Candidate Starts for Jebeks_37:
(1, 28219), (2, 28309), (4, 28594), (Start: 10 @29083 has 49 MA's), (12, 29227), (15, 29287), (16, 29296), (19, 29320),

Gene: Jung_35 Start: 29059, Stop: 29307, Start Num: 10
Candidate Starts for Jung_35:
(Start: 10 @29059 has 49 MA's), (12, 29203), (15, 29263), (16, 29272), (19, 29296),

Gene: Juniormint_36 Start: 29134, Stop: 29382, Start Num: 10
Candidate Starts for Juniormint_36:
(2, 28360), (3, 28510), (4, 28645), (5, 28720), (Start: 10 @29134 has 49 MA's), (12, 29278), (15, 29338), (16, 29347), (19, 29371),

Gene: Kari_36 Start: 29095, Stop: 29343, Start Num: 10
Candidate Starts for Kari_36:
(4, 28606), (Start: 10 @29095 has 49 MA's), (12, 29239), (16, 29308), (19, 29332),

Gene: KilKor_36 Start: 29352, Stop: 29600, Start Num: 10
Candidate Starts for KilKor_36:
(Start: 10 @29352 has 49 MA's), (12, 29496), (15, 29556), (16, 29565), (19, 29589),

Gene: Ksquared_36 Start: 29112, Stop: 29360, Start Num: 10
Candidate Starts for Ksquared_36:
(2, 28338), (3, 28488), (4, 28623), (5, 28698), (Start: 10 @29112 has 49 MA's), (12, 29256), (15, 29316), (16, 29325), (19, 29349),

Gene: Langerak_36 Start: 29111, Stop: 29359, Start Num: 10
Candidate Starts for Langerak_36:
(4, 28622), (Start: 10 @29111 has 49 MA's), (12, 29255), (16, 29324), (19, 29348),

Gene: Majeke_36 Start: 29136, Stop: 29384, Start Num: 10
Candidate Starts for Majeke_36:
(4, 28647), (Start: 10 @29136 has 49 MA's), (12, 29280), (16, 29349), (19, 29373),

Gene: Malithi_36 Start: 29021, Stop: 29269, Start Num: 10
Candidate Starts for Malithi_36:
(2, 28247), (3, 28397), (4, 28532), (5, 28607), (Start: 10 @29021 has 49 MA's), (12, 29165), (15, 29225), (16, 29234), (19, 29258),

Gene: Mangethe_36 Start: 29136, Stop: 29384, Start Num: 10
Candidate Starts for Mangethe_36:
(4, 28647), (Start: 10 @29136 has 49 MA's), (12, 29280), (16, 29349), (19, 29373),

Gene: Megiddo_36 Start: 29352, Stop: 29600, Start Num: 10
Candidate Starts for Megiddo_36:
(Start: 10 @29352 has 49 MA's), (12, 29496), (15, 29556), (16, 29565), (19, 29589),

Gene: Nazo_40 Start: 31158, Stop: 31454, Start Num: 10
Candidate Starts for Nazo_40:
(Start: 10 @31158 has 49 MA's), (12, 31302), (13, 31320), (23, 31434), (24, 31443),

Gene: Necropolis_36 Start: 29095, Stop: 29343, Start Num: 10
Candidate Starts for Necropolis_36:
(4, 28606), (Start: 10 @29095 has 49 MA's), (12, 29239), (16, 29308), (19, 29332),

Gene: PeanutPie_36 Start: 29091, Stop: 29339, Start Num: 10
Candidate Starts for PeanutPie_36:
(1, 28227), (2, 28317), (3, 28467), (4, 28602), (5, 28677), (Start: 10 @29091 has 49 MA's), (12, 29235), (15, 29295), (16, 29304), (19, 29328),

Gene: Phalm_36 Start: 29352, Stop: 29600, Start Num: 10
Candidate Starts for Phalm_36:
(Start: 10 @29352 has 49 MA's), (12, 29496), (15, 29556), (16, 29565), (19, 29589),

Gene: Phayonce_38 Start: 31066, Stop: 31365, Start Num: 9
Candidate Starts for Phayonce_38:
(Start: 9 @31066 has 1 MA's), (11, 31186), (12, 31213), (13, 31231), (14, 31255), (17, 31285), (20, 31315), (23, 31345), (24, 31354),

Gene: Phegasus_36 Start: 29103, Stop: 29351, Start Num: 10
Candidate Starts for Phegasus_36:
(4, 28614), (Start: 10 @29103 has 49 MA's), (12, 29247), (16, 29316), (19, 29340),

Gene: Phineas_36 Start: 29466, Stop: 29714, Start Num: 10
Candidate Starts for Phineas_36:
(4, 28977), (Start: 10 @29466 has 49 MA's), (12, 29610), (16, 29679), (19, 29703),

Gene: Polkaroo_36 Start: 29109, Stop: 29357, Start Num: 10
Candidate Starts for Polkaroo_36:
(Start: 10 @29109 has 49 MA's), (12, 29253), (15, 29313), (16, 29322), (19, 29346),

Gene: Purky_43 Start: 31775, Stop: 32062, Start Num: 10
Candidate Starts for Purky_43:
(Start: 10 @31775 has 49 MA's), (11, 31892), (12, 31919), (13, 31937), (18, 32003), (21, 32027), (24, 32051),

Gene: Pygmy_38 Start: 30937, Stop: 31185, Start Num: 10
Candidate Starts for Pygmy_38:
(2, 30163), (3, 30313), (4, 30448), (5, 30523), (Start: 10 @30937 has 49 MA's), (12, 31081), (15, 31141), (16, 31150), (19, 31174),

Gene: Shipwreck_38 Start: 30912, Stop: 31160, Start Num: 10
Candidate Starts for Shipwreck_38:
(2, 30138), (3, 30288), (4, 30423), (5, 30498), (Start: 10 @30912 has 49 MA's), (12, 31056), (15, 31116), (16, 31125), (19, 31149),

Gene: Sonah_36 Start: 29084, Stop: 29332, Start Num: 10
Candidate Starts for Sonah_36:
(Start: 10 @29084 has 49 MA's), (12, 29228), (16, 29297), (19, 29321),

Gene: StevieRay_36 Start: 29051, Stop: 29299, Start Num: 10
Candidate Starts for StevieRay_36:
(Start: 10 @29051 has 49 MA's), (12, 29195), (15, 29255), (16, 29264), (19, 29288),

Gene: StressBall_36 Start: 29352, Stop: 29600, Start Num: 10
Candidate Starts for StressBall_36:
(Start: 10 @29352 has 49 MA's), (12, 29496), (15, 29556), (16, 29565), (19, 29589),

Gene: Techage_36 Start: 29121, Stop: 29369, Start Num: 10
Candidate Starts for Techage_36:
(4, 28632), (Start: 10 @29121 has 49 MA's), (12, 29265), (16, 29334), (19, 29358),

Gene: Thespis_36 Start: 29091, Stop: 29339, Start Num: 10
Candidate Starts for Thespis_36:
(Start: 10 @29091 has 49 MA's), (12, 29235), (15, 29295), (16, 29304), (19, 29328),

Gene: ThulaThula_42 Start: 33180, Stop: 33485, Start Num: 10
Candidate Starts for ThulaThula_42:
(8, 33165), (Start: 10 @33180 has 49 MA's), (11, 33297), (12, 33324), (13, 33342), (14, 33366), (22, 33456), (23, 33459), (24, 33471),

Gene: Venti_36 Start: 29098, Stop: 29346, Start Num: 10
Candidate Starts for Venti_36:
(4, 28609), (Start: 10 @29098 has 49 MA's), (12, 29242), (16, 29311), (19, 29335),

Gene: Vidya_36 Start: 29131, Stop: 29379, Start Num: 10
Candidate Starts for Vidya_36:
(4, 28642), (Start: 10 @29131 has 49 MA's), (12, 29275), (16, 29344), (19, 29368),

Gene: Willsammy_35 Start: 28835, Stop: 29083, Start Num: 10
Candidate Starts for Willsammy_35:
(Start: 10 @28835 has 49 MA's), (12, 28979), (15, 29039), (16, 29048), (19, 29072),

Gene: Xeno_38 Start: 28340, Stop: 28681, Start Num: 7
Candidate Starts for Xeno_38:
(6, 28175), (Start: 7 @28340 has 1 MA's), (12, 28577), (15, 28637), (16, 28646), (19, 28670),

Gene: Zilizebeth_36 Start: 29130, Stop: 29378, Start Num: 10
Candidate Starts for Zilizebeth_36:
(4, 28641), (Start: 10 @29130 has 49 MA's), (12, 29274), (16, 29343), (19, 29367),