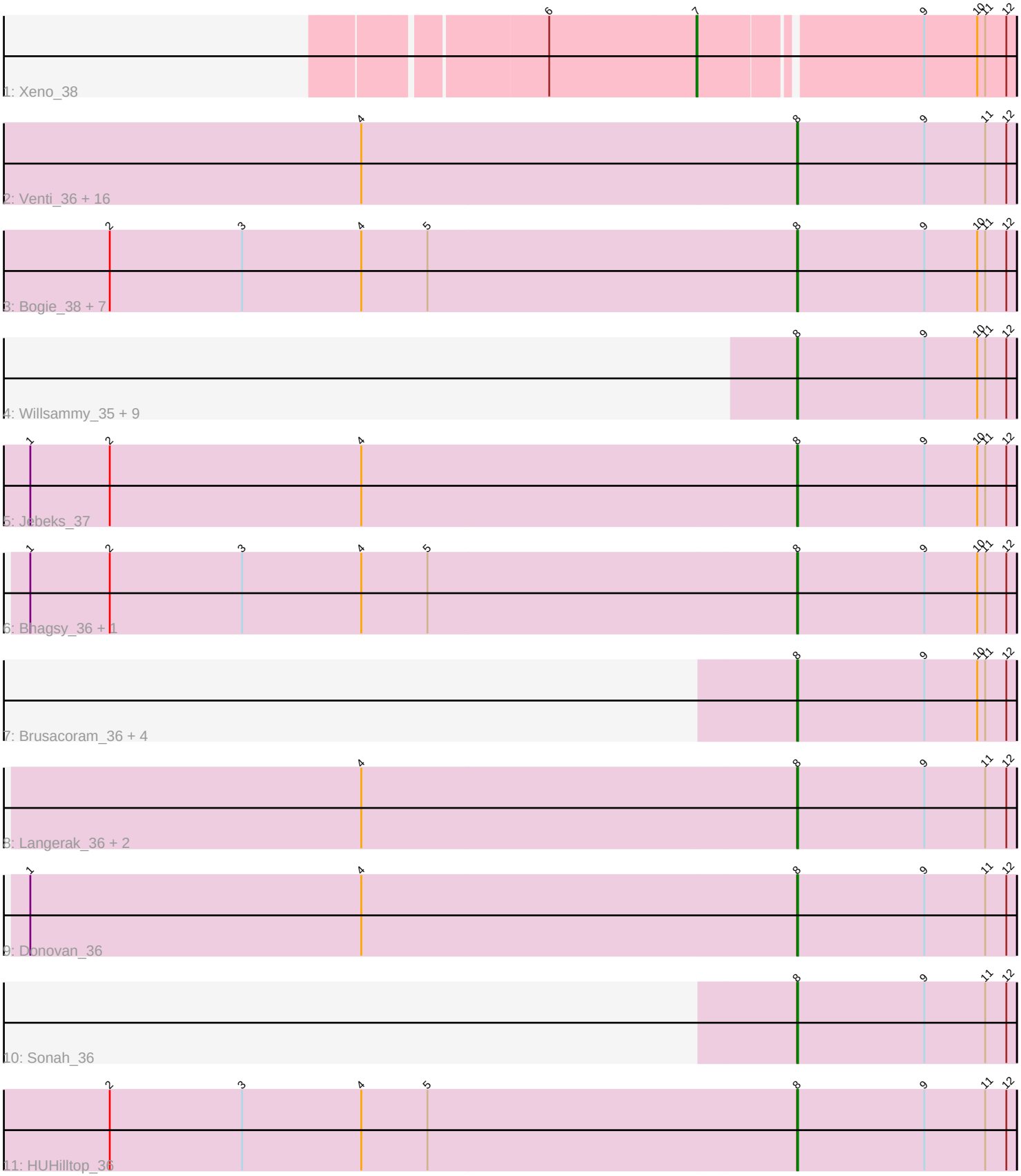
Pham 329126


1: Xeno_38
2: Venti_36 + 16
3: Bogie_38 + 7
4: Willsammy_35 + 9
5: Jebeks_37
6: Bnagsy_36 + 1
7: Brusacoram_36 + 4
8: Langerak_36 + 2
9: Donovan_36
10: Sonah_36
11: HUHilltop_36

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 329126 Report

This analysis was run 09/05/26 on database version 662.

Pham number 329126 has 50 members, 6 are drafts.

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

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

The start number called the most often in the published annotations is 8, it was called in 43 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_36, Atcoo_36, Bartholomew_35, Bhagsy_36, Bogie_38, BronnyJr_36, Brusacoram_36, Bunnies_36, CactusJack_36, Camster_36, 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, Necropolis_36, PeanutPie_36, Phalm_36, Phegasus_36, Phineas_36, Polkaroo_36, Pygmy_38, Shipwreck_38, Sonah_36, StevieRay_36, StressBall_36, Techage_36, Thespis_36, Venti_36, Vidya_36, Willsammy_35, Zilizebeth_36,

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

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

Summary by start number:

Start 7:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 44
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Xeno_38 (N),

Start 8:
• Found in 49 of 50 (98.0%) of genes in pham
• Manual Annotations of this start: 43 of 44
• 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), Bogie_38 (P1), BronnyJr_36 (P1), Brusacoram_36 (P1), Bunnies_36 (P1), CactusJack_36 (P1), Camster_36 (P1), 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), Necropolis_36 (P1), PeanutPie_36 (P1), Phalm_36 (P1), Phegasus_36 (P1), Phineas_36 (P1), Polkaroo_36 (P1), Pygmy_38 (P1), Shipwreck_38 (P1), Sonah_36 (P1), StevieRay_36 (P1), StressBall_36 (P1), Techage_36 (P1), Thespis_36 (P1), Venti_36 (P1), Vidya_36 (P1), Willsammy_35 (P1), Zilizebeth_36 (P1),

Summary by clusters:

There are 2 clusters represented in this pham: P1, N,

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 8 was manually annotated 43 times for cluster P1.

Gene Information:

Gene: Arib1_36 Start: 29101, Stop: 29349, Start Num: 8
Candidate Starts for Arib1_36:
(4, 28612), (Start: 8 @29101 has 43 MA's), (9, 29245), (11, 29314), (12, 29338),

Gene: Atcoo_36 Start: 29585, Stop: 29833, Start Num: 8
Candidate Starts for Atcoo_36:
(Start: 8 @29585 has 43 MA's), (9, 29729), (10, 29789), (11, 29798), (12, 29822),

Gene: Bartholomew_35 Start: 29098, Stop: 29346, Start Num: 8

Candidate Starts for Bartholomew_35:
(4, 28609), (Start: 8 @29098 has 43 MA's), (9, 29242), (11, 29311), (12, 29335),

Gene: Bhagsy_36 Start: 29091, Stop: 29339, Start Num: 8
Candidate Starts for Bhagsy_36:
(1, 28227), (2, 28317), (3, 28467), (4, 28602), (5, 28677), (Start: 8 @29091 has 43 MA's), (9, 29235), (10, 29295), (11, 29304), (12, 29328),

Gene: Bogie_38 Start: 30881, Stop: 31129, Start Num: 8
Candidate Starts for Bogie_38:
(2, 30107), (3, 30257), (4, 30392), (5, 30467), (Start: 8 @30881 has 43 MA's), (9, 31025), (10, 31085), (11, 31094), (12, 31118),

Gene: BronnyJr_36 Start: 29595, Stop: 29843, Start Num: 8
Candidate Starts for BronnyJr_36:
(4, 29106), (Start: 8 @29595 has 43 MA's), (9, 29739), (11, 29808), (12, 29832),

Gene: Brusacoram_36 Start: 29091, Stop: 29339, Start Num: 8
Candidate Starts for Brusacoram_36:
(Start: 8 @29091 has 43 MA's), (9, 29235), (10, 29295), (11, 29304), (12, 29328),

Gene: Bunnies_36 Start: 29112, Stop: 29360, Start Num: 8
Candidate Starts for Bunnies_36:
(2, 28338), (3, 28488), (4, 28623), (5, 28698), (Start: 8 @29112 has 43 MA's), (9, 29256), (10, 29316), (11, 29325), (12, 29349),

Gene: CactusJack_36 Start: 29352, Stop: 29600, Start Num: 8
Candidate Starts for CactusJack_36:
(Start: 8 @29352 has 43 MA's), (9, 29496), (10, 29556), (11, 29565), (12, 29589),

Gene: Camster_36 Start: 29128, Stop: 29376, Start Num: 8
Candidate Starts for Camster_36:
(2, 28354), (3, 28504), (4, 28639), (5, 28714), (Start: 8 @29128 has 43 MA's), (9, 29272), (10, 29332), (11, 29341), (12, 29365),

Gene: Chubbello_36 Start: 29094, Stop: 29342, Start Num: 8
Candidate Starts for Chubbello_36:
(4, 28605), (Start: 8 @29094 has 43 MA's), (9, 29238), (11, 29307), (12, 29331),

Gene: Donovan_36 Start: 29117, Stop: 29365, Start Num: 8
Candidate Starts for Donovan_36:
(1, 28253), (4, 28628), (Start: 8 @29117 has 43 MA's), (9, 29261), (11, 29330), (12, 29354),

Gene: Dynamo_36 Start: 29506, Stop: 29754, Start Num: 8
Candidate Starts for Dynamo_36:
(4, 29017), (Start: 8 @29506 has 43 MA's), (9, 29650), (11, 29719), (12, 29743),

Gene: Etoile_36 Start: 29098, Stop: 29346, Start Num: 8
Candidate Starts for Etoile_36:
(4, 28609), (Start: 8 @29098 has 43 MA's), (9, 29242), (11, 29311), (12, 29335),

Gene: FirstPlacePfu_36 Start: 29130, Stop: 29378, Start Num: 8
Candidate Starts for FirstPlacePfu_36:

(4, 28641), (Start: 8 @29130 has 43 MA's), (9, 29274), (11, 29343), (12, 29367),

Gene: Fishburne_36 Start: 29098, Stop: 29346, Start Num: 8
Candidate Starts for Fishburne_36:
(4, 28609), (Start: 8 @29098 has 43 MA's), (9, 29242), (11, 29311), (12, 29335),

Gene: GaloreK_36 Start: 29091, Stop: 29339, Start Num: 8
Candidate Starts for GaloreK_36:
(4, 28602), (Start: 8 @29091 has 43 MA's), (9, 29235), (11, 29304), (12, 29328),

Gene: Gavriela_36 Start: 29352, Stop: 29600, Start Num: 8
Candidate Starts for Gavriela_36:
(Start: 8 @29352 has 43 MA's), (9, 29496), (10, 29556), (11, 29565), (12, 29589),

Gene: Glaske_36 Start: 29352, Stop: 29600, Start Num: 8
Candidate Starts for Glaske_36:
(Start: 8 @29352 has 43 MA's), (9, 29496), (10, 29556), (11, 29565), (12, 29589),

Gene: GreaseLightnin_36 Start: 29338, Stop: 29586, Start Num: 8
Candidate Starts for GreaseLightnin_36:
(Start: 8 @29338 has 43 MA's), (9, 29482), (10, 29542), (11, 29551), (12, 29575),

Gene: HUHilltop_36 Start: 29128, Stop: 29376, Start Num: 8
Candidate Starts for HUHilltop_36:
(2, 28354), (3, 28504), (4, 28639), (5, 28714), (Start: 8 @29128 has 43 MA's), (9, 29272), (11, 29341), (12, 29365),

Gene: Jebeks_37 Start: 29083, Stop: 29331, Start Num: 8
Candidate Starts for Jebeks_37:
(1, 28219), (2, 28309), (4, 28594), (Start: 8 @29083 has 43 MA's), (9, 29227), (10, 29287), (11, 29296), (12, 29320),

Gene: Jung_35 Start: 29059, Stop: 29307, Start Num: 8
Candidate Starts for Jung_35:
(Start: 8 @29059 has 43 MA's), (9, 29203), (10, 29263), (11, 29272), (12, 29296),

Gene: Juniormint_36 Start: 29134, Stop: 29382, Start Num: 8
Candidate Starts for Juniormint_36:
(2, 28360), (3, 28510), (4, 28645), (5, 28720), (Start: 8 @29134 has 43 MA's), (9, 29278), (10, 29338), (11, 29347), (12, 29371),

Gene: Kari_36 Start: 29095, Stop: 29343, Start Num: 8
Candidate Starts for Kari_36:
(4, 28606), (Start: 8 @29095 has 43 MA's), (9, 29239), (11, 29308), (12, 29332),

Gene: KilKor_36 Start: 29352, Stop: 29600, Start Num: 8
Candidate Starts for KilKor_36:
(Start: 8 @29352 has 43 MA's), (9, 29496), (10, 29556), (11, 29565), (12, 29589),

Gene: Ksquared_36 Start: 29112, Stop: 29360, Start Num: 8
Candidate Starts for Ksquared_36:
(2, 28338), (3, 28488), (4, 28623), (5, 28698), (Start: 8 @29112 has 43 MA's), (9, 29256), (10, 29316), (11, 29325), (12, 29349),

Gene: Langerak_36 Start: 29111, Stop: 29359, Start Num: 8
Candidate Starts for Langerak_36:
(4, 28622), (Start: 8 @29111 has 43 MA's), (9, 29255), (11, 29324), (12, 29348),

Gene: Majeke_36 Start: 29136, Stop: 29384, Start Num: 8
Candidate Starts for Majeke_36:
(4, 28647), (Start: 8 @29136 has 43 MA's), (9, 29280), (11, 29349), (12, 29373),

Gene: Malithi_36 Start: 29021, Stop: 29269, Start Num: 8
Candidate Starts for Malithi_36:
(2, 28247), (3, 28397), (4, 28532), (5, 28607), (Start: 8 @29021 has 43 MA's), (9, 29165), (10, 29225), (11, 29234), (12, 29258),

Gene: Mangethe_36 Start: 29136, Stop: 29384, Start Num: 8
Candidate Starts for Mangethe_36:
(4, 28647), (Start: 8 @29136 has 43 MA's), (9, 29280), (11, 29349), (12, 29373),

Gene: Megiddo_36 Start: 29352, Stop: 29600, Start Num: 8
Candidate Starts for Megiddo_36:
(Start: 8 @29352 has 43 MA's), (9, 29496), (10, 29556), (11, 29565), (12, 29589),

Gene: Necropolis_36 Start: 29095, Stop: 29343, Start Num: 8
Candidate Starts for Necropolis_36:
(4, 28606), (Start: 8 @29095 has 43 MA's), (9, 29239), (11, 29308), (12, 29332),

Gene: PeanutPie_36 Start: 29091, Stop: 29339, Start Num: 8
Candidate Starts for PeanutPie_36:
(1, 28227), (2, 28317), (3, 28467), (4, 28602), (5, 28677), (Start: 8 @29091 has 43 MA's), (9, 29235), (10, 29295), (11, 29304), (12, 29328),

Gene: Phalm_36 Start: 29352, Stop: 29600, Start Num: 8
Candidate Starts for Phalm_36:
(Start: 8 @29352 has 43 MA's), (9, 29496), (10, 29556), (11, 29565), (12, 29589),

Gene: Phegasus_36 Start: 29103, Stop: 29351, Start Num: 8
Candidate Starts for Phegasus_36:
(4, 28614), (Start: 8 @29103 has 43 MA's), (9, 29247), (11, 29316), (12, 29340),

Gene: Phineas_36 Start: 29466, Stop: 29714, Start Num: 8
Candidate Starts for Phineas_36:
(4, 28977), (Start: 8 @29466 has 43 MA's), (9, 29610), (11, 29679), (12, 29703),

Gene: Polkaroo_36 Start: 29109, Stop: 29357, Start Num: 8
Candidate Starts for Polkaroo_36:
(Start: 8 @29109 has 43 MA's), (9, 29253), (10, 29313), (11, 29322), (12, 29346),

Gene: Pygmy_38 Start: 30937, Stop: 31185, Start Num: 8
Candidate Starts for Pygmy_38:
(2, 30163), (3, 30313), (4, 30448), (5, 30523), (Start: 8 @30937 has 43 MA's), (9, 31081), (10, 31141), (11, 31150), (12, 31174),

Gene: Shipwreck_38 Start: 30912, Stop: 31160, Start Num: 8

Candidate Starts for Shipwreck_38:
(2, 30138), (3, 30288), (4, 30423), (5, 30498), (Start: 8 @30912 has 43 MA's), (9, 31056), (10, 31116), (11, 31125), (12, 31149),

Gene: Sonah_36 Start: 29084, Stop: 29332, Start Num: 8
Candidate Starts for Sonah_36:
(Start: 8 @29084 has 43 MA's), (9, 29228), (11, 29297), (12, 29321),

Gene: StevieRay_36 Start: 29051, Stop: 29299, Start Num: 8
Candidate Starts for StevieRay_36:
(Start: 8 @29051 has 43 MA's), (9, 29195), (10, 29255), (11, 29264), (12, 29288),

Gene: StressBall_36 Start: 29352, Stop: 29600, Start Num: 8
Candidate Starts for StressBall_36:
(Start: 8 @29352 has 43 MA's), (9, 29496), (10, 29556), (11, 29565), (12, 29589),

Gene: Techage_36 Start: 29121, Stop: 29369, Start Num: 8
Candidate Starts for Techage_36:
(4, 28632), (Start: 8 @29121 has 43 MA's), (9, 29265), (11, 29334), (12, 29358),

Gene: Thespis_36 Start: 29091, Stop: 29339, Start Num: 8
Candidate Starts for Thespis_36:
(Start: 8 @29091 has 43 MA's), (9, 29235), (10, 29295), (11, 29304), (12, 29328),

Gene: Venti_36 Start: 29098, Stop: 29346, Start Num: 8
Candidate Starts for Venti_36:
(4, 28609), (Start: 8 @29098 has 43 MA's), (9, 29242), (11, 29311), (12, 29335),

Gene: Vidya_36 Start: 29131, Stop: 29379, Start Num: 8
Candidate Starts for Vidya_36:
(4, 28642), (Start: 8 @29131 has 43 MA's), (9, 29275), (11, 29344), (12, 29368),

Gene: Willsammy_35 Start: 28835, Stop: 29083, Start Num: 8
Candidate Starts for Willsammy_35:
(Start: 8 @28835 has 43 MA's), (9, 28979), (10, 29039), (11, 29048), (12, 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), (9, 28577), (10, 28637), (11, 28646), (12, 28670),

Gene: Zilizebeth_36 Start: 29130, Stop: 29378, Start Num: 8
Candidate Starts for Zilizebeth_36:
(4, 28641), (Start: 8 @29130 has 43 MA's), (9, 29274), (11, 29343), (12, 29367),