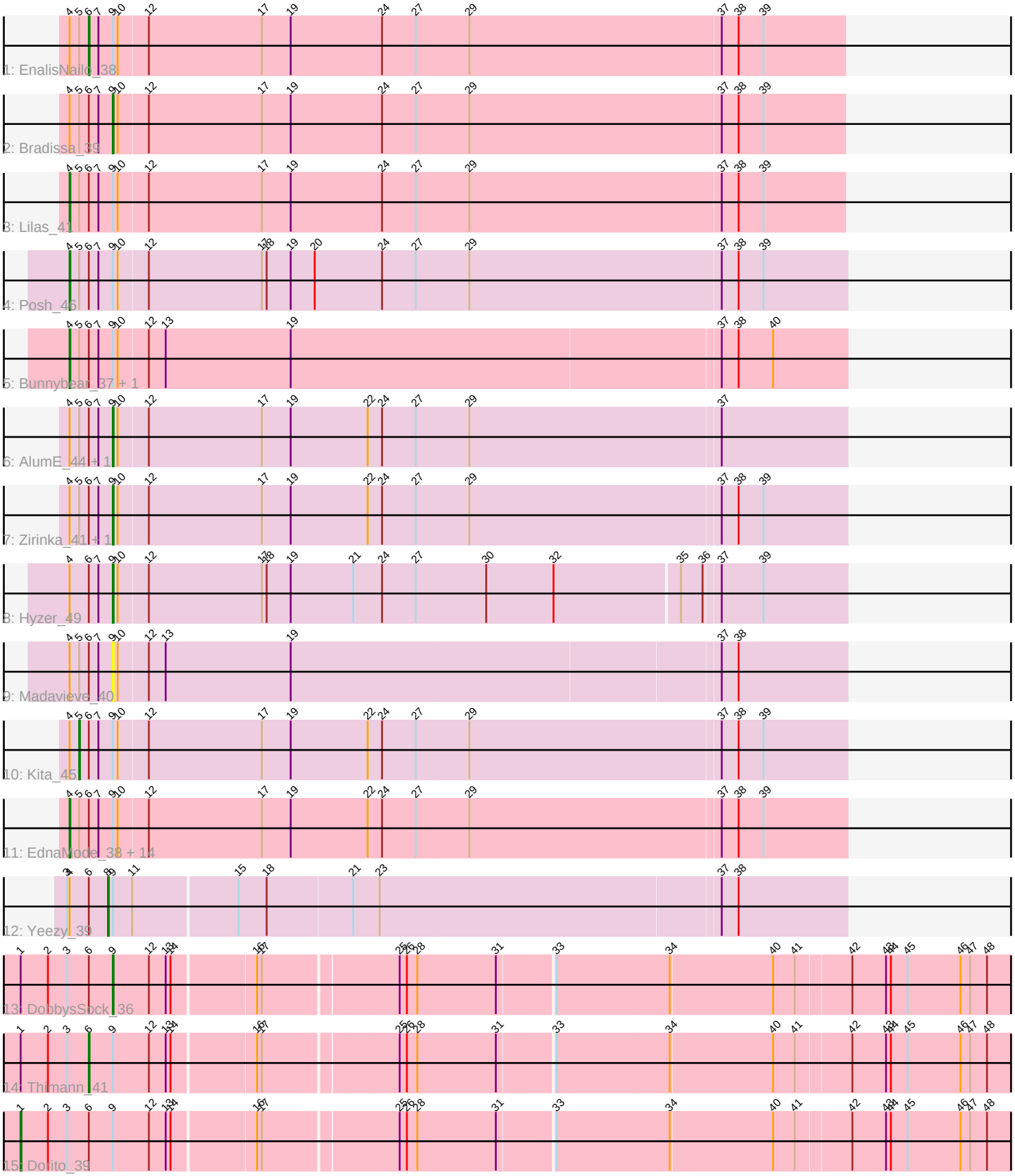
Pham 347888


1: EnalisNailo_38
2: Bradissa_39
3: Lilas_41
4: Posh_46
5: Bunnybear_37 + 1
6: AlumE_44 + 1
7: Zirinka_41 + 1
8: Hyzer_49
9: Madavieve_40
10: Kita_45
11: EdnaMode_38 + 14
12: Yeezy_39
13: DobbysSock_36
14: Thimann_41
15: Dorito_39

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 347888 Report

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

Pham number 347888 has 32 members, 2 are drafts.

Phages represented in each track:
• Track 1 : EnalisNailo_38
• Track 2 : Bradissa_39
• Track 3 : Lilas_41
• Track 4 : Posh_46
• Track 5 : Bunnybear_37, Maridalia_45
• Track 6 : AlumE_44, BoyNamedSue_44
• Track 7 : Zirinka_41, Bialota_42
• Track 8 : Hyzer_49
• Track 9 : Madavieve_40
• Track 10 : Kita_45
• Track 11 : EdnaMode_38, Suscepit_44, Polly_41, Eudoria_44, Pickett_37, SoilAssassin_39, LordFarquaad_41, Tayonia_44, Dillpickles_48, Neobush_44, Antonio_44, Zameen_44, Trumpet_44, Attis_39, Yeet412_39
• Track 12 : Yeezy_39
• Track 13 : DobbysSock_36
• Track 14 : Thimann_41
• Track 15 : Dorito_39

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

The start number called the most often in the published annotations is 4, it was called in 18 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Antonio_44, Attis_39, Bunnybear_37, Dillpickles_48, EdnaMode_38, Eudoria_44, Lilas_41, LordFarquaad_41, Maridalia_45, Neobush_44, Pickett_37, Polly_41, Posh_46, SoilAssassin_39, Suscepit_44, Tayonia_44, Trumpet_44, Yeet412_39, Zameen_44,

Genes that have the "Most Annotated" start but do not call it:
• AlumE_44, Bialota_42, BoyNamedSue_44, Bradissa_39, EnalisNailo_38, Hyzer_49, Kita_45, Madavieve_40, Yeezy_39, Zirinka_41,

Genes that do not have the "Most Annotated" start:

• DobbysSock_36, Dorito_39, Thimann_41,

Summary by start number:

Start 1:
• Found in 3 of 32 (9.4%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Dorito_39 (CZ4),

Start 4:
• Found in 29 of 32 (90.6%) of genes in pham
• Manual Annotations of this start: 18 of 30
• Called 65.5% of time when present
• Phage (with cluster) where this start called: Antonio_44 (CZ1), Attis_39 (CZ2), Bunnybear_37 (CZ), Dillpickles_48 (CZ1), EdnaMode_38 (CZ2), Eudoria_44 (CZ1), Lilas_41 (CY1), LordFarquaad_41 (CZ2), Maridalia_45 (CZ1), Neobush_44 (CZ1), Pickett_37 (CZ2), Polly_41 (CZ1), Posh_46 (CY4), SoilAssassin_39 (CZ2), Suscepit_44 (CZ1), Tayonia_44 (CZ1), Trumpet_44 (CZ1), Yeet412_39 (CZ2), Zameen_44 (CZ1),

Start 5:
• Found in 27 of 32 (84.4%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 3.7% of time when present
• Phage (with cluster) where this start called: Kita_45 (CZ1),

Start 6:
• Found in 32 of 32 (100.0%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 6.2% of time when present
• Phage (with cluster) where this start called: EnalisNailo_38 (CY1), Thimann_41 (CZ4),

Start 8:
• Found in 1 of 32 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yeezy_39 (CZ3),

Start 9:
• Found in 32 of 32 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 30
• Called 25.0% of time when present
• Phage (with cluster) where this start called: AlumE_44 (CZ1), Bialota_42 (CZ1), BoyNamedSue_44 (CZ1), Bradissa_39 (CY1), DobbysSock_36 (CZ4), Hyzer_49 (CZ1), Madavieve_40 (CZ1), Zirinka_41 (CZ1),

Summary by clusters:

There are 7 clusters represented in this pham: CY1, CY4, CZ2, CZ3, CZ1, CZ4, CZ,

Info for manual annotations of cluster CY1:

•Start number 4 was manually annotated 1 time for cluster CY1.
•Start number 6 was manually annotated 1 time for cluster CY1.
•Start number 9 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY4:
•Start number 4 was manually annotated 1 time for cluster CY4.

Info for manual annotations of cluster CZ:
•Start number 4 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 4 was manually annotated 9 times for cluster CZ1.
•Start number 5 was manually annotated 1 time for cluster CZ1.
•Start number 9 was manually annotated 5 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 4 was manually annotated 6 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 8 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 1 was manually annotated 1 time for cluster CZ4.
•Start number 6 was manually annotated 1 time for cluster CZ4.
•Start number 9 was manually annotated 1 time for cluster CZ4.

Gene Information:

Gene: AlumE_44 Start: 34842, Stop: 33937, Start Num: 9
Candidate Starts for AlumE_44:
(Start: 4 @34896 has 18 MA's), (Start: 5 @34884 has 1 MA's), (Start: 6 @34872 has 2 MA's), (7, 34860), (Start: 9 @34842 has 7 MA's), (10, 34836), (12, 34800), (17, 34659), (19, 34623), (22, 34527), (24, 34509), (27, 34467), (29, 34401), (37, 34092),

Gene: Antonio_44 Start: 34169, Stop: 33210, Start Num: 4
Candidate Starts for Antonio_44:
(Start: 4 @34169 has 18 MA's), (Start: 5 @34157 has 1 MA's), (Start: 6 @34145 has 2 MA's), (7, 34133), (Start: 9 @34115 has 7 MA's), (10, 34109), (12, 34073), (17, 33932), (19, 33896), (22, 33800), (24, 33782), (27, 33740), (29, 33674), (37, 33365), (38, 33344), (39, 33314),

Gene: Attis_39 Start: 31302, Stop: 30343, Start Num: 4
Candidate Starts for Attis_39:
(Start: 4 @31302 has 18 MA's), (Start: 5 @31290 has 1 MA's), (Start: 6 @31278 has 2 MA's), (7, 31266), (Start: 9 @31248 has 7 MA's), (10, 31242), (12, 31206), (17, 31065), (19, 31029), (22, 30933), (24, 30915), (27, 30873), (29, 30807), (37, 30498), (38, 30477), (39, 30447),

Gene: Bialota_42 Start: 34867, Stop: 33962, Start Num: 9
Candidate Starts for Bialota_42:
(Start: 4 @34921 has 18 MA's), (Start: 5 @34909 has 1 MA's), (Start: 6 @34897 has 2 MA's), (7, 34885), (Start: 9 @34867 has 7 MA's), (10, 34861), (12, 34825), (17, 34684), (19, 34648), (22, 34552), (24, 34534), (27, 34492), (29, 34426), (37, 34117), (38, 34096), (39, 34066),

Gene: BoyNamedSue_44 Start: 34842, Stop: 33937, Start Num: 9
Candidate Starts for BoyNamedSue_44:
(Start: 4 @34896 has 18 MA's), (Start: 5 @34884 has 1 MA's), (Start: 6 @34872 has 2 MA's), (7, 34860), (Start: 9 @34842 has 7 MA's), (10, 34836), (12, 34800), (17, 34659), (19, 34623), (22, 34527), (24, 34509), (27, 34467), (29, 34401), (37, 34092),

Gene: Bradissa_39 Start: 34156, Stop: 33251, Start Num: 9
Candidate Starts for Bradissa_39:
(Start: 4 @34210 has 18 MA's), (Start: 5 @34198 has 1 MA's), (Start: 6 @34186 has 2 MA's), (7, 34174), (Start: 9 @34156 has 7 MA's), (10, 34150), (12, 34114), (17, 33973), (19, 33937), (24, 33823), (27, 33781), (29, 33715), (37, 33403), (38, 33382), (39, 33352),

Gene: Bunnybear_37 Start: 32567, Stop: 31611, Start Num: 4
Candidate Starts for Bunnybear_37:
(Start: 4 @32567 has 18 MA's), (Start: 5 @32555 has 1 MA's), (Start: 6 @32543 has 2 MA's), (7, 32531), (Start: 9 @32513 has 7 MA's), (10, 32507), (12, 32471), (13, 32450), (19, 32294), (37, 31766), (38, 31745), (40, 31703),

Gene: Dillpickles_48 Start: 34213, Stop: 33254, Start Num: 4
Candidate Starts for Dillpickles_48:
(Start: 4 @34213 has 18 MA's), (Start: 5 @34201 has 1 MA's), (Start: 6 @34189 has 2 MA's), (7, 34177), (Start: 9 @34159 has 7 MA's), (10, 34153), (12, 34117), (17, 33976), (19, 33940), (22, 33844), (24, 33826), (27, 33784), (29, 33718), (37, 33409), (38, 33388), (39, 33358),

Gene: DobbysSock_36 Start: 31288, Stop: 30116, Start Num: 9
Candidate Starts for DobbysSock_36:
(Start: 1 @31402 has 1 MA's), (2, 31369), (3, 31345), (Start: 6 @31318 has 2 MA's), (Start: 9 @31288 has 7 MA's), (12, 31243), (13, 31222), (14, 31216), (16, 31117), (17, 31111), (25, 30952), (26, 30943), (28, 30931), (31, 30835), (33, 30772), (34, 30634), (40, 30508), (41, 30481), (42, 30415), (43, 30373), (44, 30367), (45, 30346), (46, 30280), (47, 30268), (48, 30247),

Gene: Dorito_39 Start: 31046, Stop: 29760, Start Num: 1
Candidate Starts for Dorito_39:
(Start: 1 @31046 has 1 MA's), (2, 31013), (3, 30989), (Start: 6 @30962 has 2 MA's), (Start: 9 @30932 has 7 MA's), (12, 30887), (13, 30866), (14, 30860), (16, 30761), (17, 30755), (25, 30596), (26, 30587), (28, 30575), (31, 30479), (33, 30416), (34, 30278), (40, 30152), (41, 30125), (42, 30059), (43, 30017), (44, 30011), (45, 29990), (46, 29924), (47, 29912), (48, 29891),

Gene: EdnaMode_38 Start: 29990, Stop: 29031, Start Num: 4
Candidate Starts for EdnaMode_38:
(Start: 4 @29990 has 18 MA's), (Start: 5 @29978 has 1 MA's), (Start: 6 @29966 has 2 MA's), (7, 29954), (Start: 9 @29936 has 7 MA's), (10, 29930), (12, 29894), (17, 29753), (19, 29717), (22, 29621), (24, 29603), (27, 29561), (29, 29495), (37, 29186), (38, 29165), (39, 29135),

Gene: EnalisNailo_38 Start: 33720, Stop: 32785, Start Num: 6
Candidate Starts for EnalisNailo_38:
(Start: 4 @33744 has 18 MA's), (Start: 5 @33732 has 1 MA's), (Start: 6 @33720 has 2 MA's), (7, 33708), (Start: 9 @33690 has 7 MA's), (10, 33684), (12, 33648), (17, 33507), (19, 33471), (24, 33357), (27, 33315), (29, 33249), (37, 32937), (38, 32916), (39, 32886),

Gene: Eudoria_44 Start: 34169, Stop: 33210, Start Num: 4
Candidate Starts for Eudoria_44:

(Start: 4 @34169 has 18 MA's), (Start: 5 @34157 has 1 MA's), (Start: 6 @34145 has 2 MA's), (7, 34133), (Start: 9 @34115 has 7 MA's), (10, 34109), (12, 34073), (17, 33932), (19, 33896), (22, 33800), (24, 33782), (27, 33740), (29, 33674), (37, 33365), (38, 33344), (39, 33314),

Gene: Hyzer_49 Start: 37114, Stop: 36215, Start Num: 9
Candidate Starts for Hyzer_49:
(Start: 4 @37168 has 18 MA's), (Start: 6 @37144 has 2 MA's), (7, 37132), (Start: 9 @37114 has 7 MA's), (10, 37108), (12, 37072), (17, 36931), (18, 36925), (19, 36895), (21, 36817), (24, 36781), (27, 36739), (30, 36652), (32, 36568), (35, 36415), (36, 36388), (37, 36370), (39, 36319),

Gene: Kita_45 Start: 34166, Stop: 33219, Start Num: 5
Candidate Starts for Kita_45:
(Start: 4 @34178 has 18 MA's), (Start: 5 @34166 has 1 MA's), (Start: 6 @34154 has 2 MA's), (7, 34142), (Start: 9 @34124 has 7 MA's), (10, 34118), (12, 34082), (17, 33941), (19, 33905), (22, 33809), (24, 33791), (27, 33749), (29, 33683), (37, 33374), (38, 33353), (39, 33323),

Gene: Lilas_41 Start: 35455, Stop: 34496, Start Num: 4
Candidate Starts for Lilas_41:
(Start: 4 @35455 has 18 MA's), (Start: 5 @35443 has 1 MA's), (Start: 6 @35431 has 2 MA's), (7, 35419), (Start: 9 @35401 has 7 MA's), (10, 35395), (12, 35359), (17, 35218), (19, 35182), (24, 35068), (27, 35026), (29, 34960), (37, 34648), (38, 34627), (39, 34597),

Gene: LordFarquaad_41 Start: 31283, Stop: 30324, Start Num: 4
Candidate Starts for LordFarquaad_41:
(Start: 4 @31283 has 18 MA's), (Start: 5 @31271 has 1 MA's), (Start: 6 @31259 has 2 MA's), (7, 31247), (Start: 9 @31229 has 7 MA's), (10, 31223), (12, 31187), (17, 31046), (19, 31010), (22, 30914), (24, 30896), (27, 30854), (29, 30788), (37, 30479), (38, 30458), (39, 30428),

Gene: Madavieve_40 Start: 33924, Stop: 33025, Start Num: 9
Candidate Starts for Madavieve_40:
(Start: 4 @33978 has 18 MA's), (Start: 5 @33966 has 1 MA's), (Start: 6 @33954 has 2 MA's), (7, 33942), (Start: 9 @33924 has 7 MA's), (10, 33918), (12, 33882), (13, 33861), (19, 33705), (37, 33180), (38, 33159),

Gene: Maridalia_45 Start: 34313, Stop: 33357, Start Num: 4
Candidate Starts for Maridalia_45:
(Start: 4 @34313 has 18 MA's), (Start: 5 @34301 has 1 MA's), (Start: 6 @34289 has 2 MA's), (7, 34277), (Start: 9 @34259 has 7 MA's), (10, 34253), (12, 34217), (13, 34196), (19, 34040), (37, 33512), (38, 33491), (40, 33449),

Gene: Neobush_44 Start: 34163, Stop: 33204, Start Num: 4
Candidate Starts for Neobush_44:
(Start: 4 @34163 has 18 MA's), (Start: 5 @34151 has 1 MA's), (Start: 6 @34139 has 2 MA's), (7, 34127), (Start: 9 @34109 has 7 MA's), (10, 34103), (12, 34067), (17, 33926), (19, 33890), (22, 33794), (24, 33776), (27, 33734), (29, 33668), (37, 33359), (38, 33338), (39, 33308),

Gene: Pickett_37 Start: 28466, Stop: 27507, Start Num: 4
Candidate Starts for Pickett_37:
(Start: 4 @28466 has 18 MA's), (Start: 5 @28454 has 1 MA's), (Start: 6 @28442 has 2 MA's), (7, 28430), (Start: 9 @28412 has 7 MA's), (10, 28406), (12, 28370), (17, 28229), (19, 28193), (22, 28097), (24, 28079), (27, 28037), (29, 27971), (37, 27662), (38, 27641), (39, 27611),

Gene: Polly_41 Start: 33612, Stop: 32653, Start Num: 4

Candidate Starts for Polly_41:
(Start: 4 @33612 has 18 MA's), (Start: 5 @33600 has 1 MA's), (Start: 6 @33588 has 2 MA's), (7, 33576), (Start: 9 @33558 has 7 MA's), (10, 33552), (12, 33516), (17, 33375), (19, 33339), (22, 33243), (24, 33225), (27, 33183), (29, 33117), (37, 32808), (38, 32787), (39, 32757),

Gene: Posh_46 Start: 35855, Stop: 34893, Start Num: 4
Candidate Starts for Posh_46:
(Start: 4 @35855 has 18 MA's), (Start: 5 @35843 has 1 MA's), (Start: 6 @35831 has 2 MA's), (7, 35819), (Start: 9 @35801 has 7 MA's), (10, 35795), (12, 35759), (17, 35618), (18, 35612), (19, 35582), (20, 35552), (24, 35468), (27, 35426), (29, 35360), (37, 35048), (38, 35027), (39, 34997),

Gene: SoilAssassin_39 Start: 31301, Stop: 30342, Start Num: 4
Candidate Starts for SoilAssassin_39:
(Start: 4 @31301 has 18 MA's), (Start: 5 @31289 has 1 MA's), (Start: 6 @31277 has 2 MA's), (7, 31265), (Start: 9 @31247 has 7 MA's), (10, 31241), (12, 31205), (17, 31064), (19, 31028), (22, 30932), (24, 30914), (27, 30872), (29, 30806), (37, 30497), (38, 30476), (39, 30446),

Gene: Suscepit_44 Start: 34170, Stop: 33211, Start Num: 4
Candidate Starts for Suscepit_44:
(Start: 4 @34170 has 18 MA's), (Start: 5 @34158 has 1 MA's), (Start: 6 @34146 has 2 MA's), (7, 34134), (Start: 9 @34116 has 7 MA's), (10, 34110), (12, 34074), (17, 33933), (19, 33897), (22, 33801), (24, 33783), (27, 33741), (29, 33675), (37, 33366), (38, 33345), (39, 33315),

Gene: Tayonia_44 Start: 34169, Stop: 33210, Start Num: 4
Candidate Starts for Tayonia_44:
(Start: 4 @34169 has 18 MA's), (Start: 5 @34157 has 1 MA's), (Start: 6 @34145 has 2 MA's), (7, 34133), (Start: 9 @34115 has 7 MA's), (10, 34109), (12, 34073), (17, 33932), (19, 33896), (22, 33800), (24, 33782), (27, 33740), (29, 33674), (37, 33365), (38, 33344), (39, 33314),

Gene: Thimann_41 Start: 31844, Stop: 30642, Start Num: 6
Candidate Starts for Thimann_41:
(Start: 1 @31928 has 1 MA's), (2, 31895), (3, 31871), (Start: 6 @31844 has 2 MA's), (Start: 9 @31814 has 7 MA's), (12, 31769), (13, 31748), (14, 31742), (16, 31643), (17, 31637), (25, 31478), (26, 31469), (28, 31457), (31, 31361), (33, 31298), (34, 31160), (40, 31034), (41, 31007), (42, 30941), (43, 30899), (44, 30893), (45, 30872), (46, 30806), (47, 30794), (48, 30773),

Gene: Trumpet_44 Start: 34170, Stop: 33211, Start Num: 4
Candidate Starts for Trumpet_44:
(Start: 4 @34170 has 18 MA's), (Start: 5 @34158 has 1 MA's), (Start: 6 @34146 has 2 MA's), (7, 34134), (Start: 9 @34116 has 7 MA's), (10, 34110), (12, 34074), (17, 33933), (19, 33897), (22, 33801), (24, 33783), (27, 33741), (29, 33675), (37, 33366), (38, 33345), (39, 33315),

Gene: Yeet412_39 Start: 31302, Stop: 30343, Start Num: 4
Candidate Starts for Yeet412_39:
(Start: 4 @31302 has 18 MA's), (Start: 5 @31290 has 1 MA's), (Start: 6 @31278 has 2 MA's), (7, 31266), (Start: 9 @31248 has 7 MA's), (10, 31242), (12, 31206), (17, 31065), (19, 31029), (22, 30933), (24, 30915), (27, 30873), (29, 30807), (37, 30498), (38, 30477), (39, 30447),

Gene: Yeezy_39 Start: 31783, Stop: 30884, Start Num: 8
Candidate Starts for Yeezy_39:
(3, 31834), (Start: 4 @31831 has 18 MA's), (Start: 6 @31807 has 2 MA's), (Start: 8 @31783 has 1 MA's), (Start: 9 @31777 has 7 MA's), (11, 31753), (15, 31627), (18, 31594), (21, 31489), (23, 31456), (37, 31039), (38, 31018),

Gene: Zameen_44 Start: 34169, Stop: 33210, Start Num: 4
Candidate Starts for Zameen_44:
(Start: 4 @34169 has 18 MA's), (Start: 5 @34157 has 1 MA's), (Start: 6 @34145 has 2 MA's), (7, 34133), (Start: 9 @34115 has 7 MA's), (10, 34109), (12, 34073), (17, 33932), (19, 33896), (22, 33800), (24, 33782), (27, 33740), (29, 33674), (37, 33365), (38, 33344), (39, 33314),

Gene: Zirinka_41 Start: 34855, Stop: 33950, Start Num: 9
Candidate Starts for Zirinka_41:
(Start: 4 @34909 has 18 MA's), (Start: 5 @34897 has 1 MA's), (Start: 6 @34885 has 2 MA's), (7, 34873), (Start: 9 @34855 has 7 MA's), (10, 34849), (12, 34813), (17, 34672), (19, 34636), (22, 34540), (24, 34522), (27, 34480), (29, 34414), (37, 34105), (38, 34084), (39, 34054),