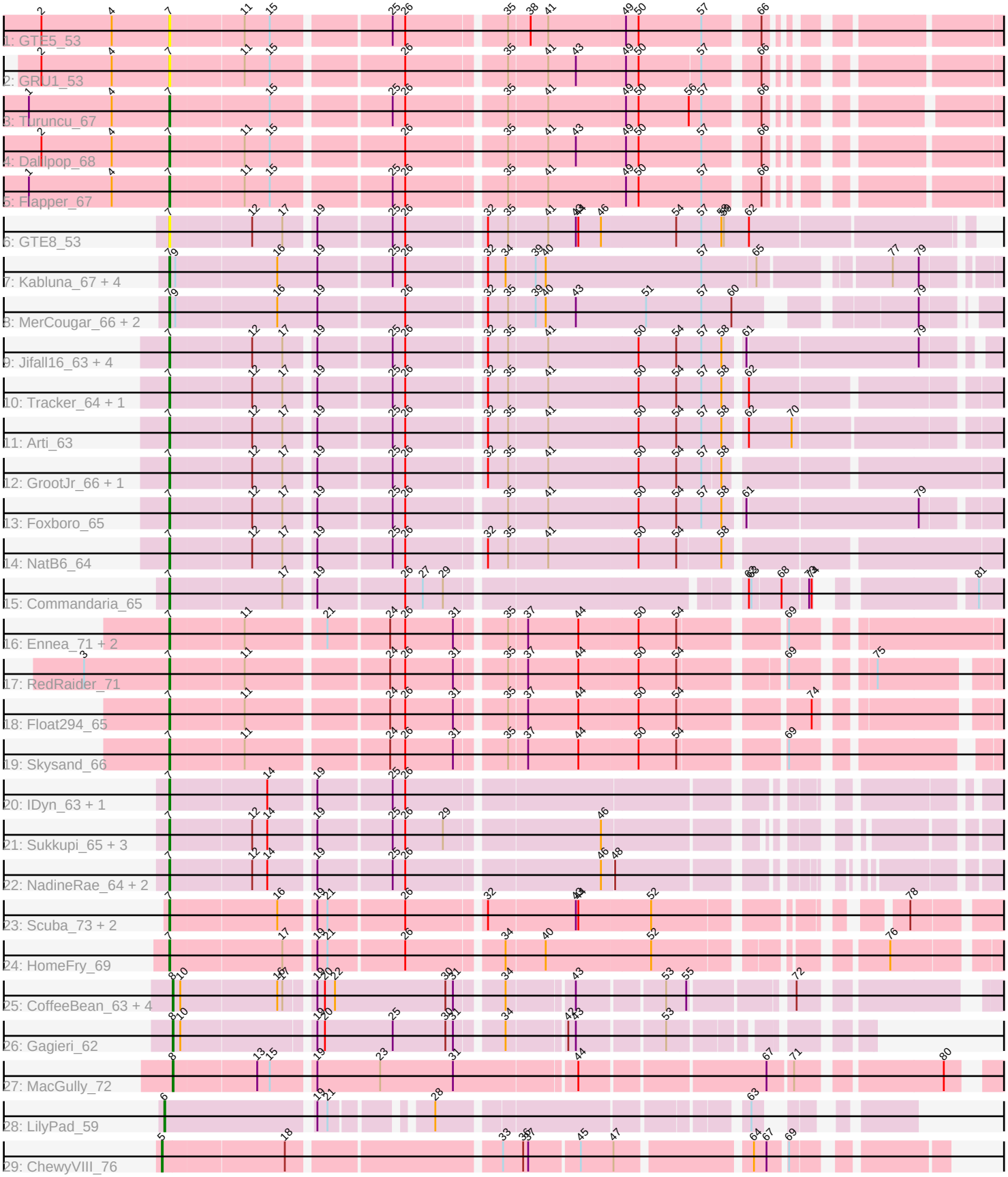
Pham 347676


1: GTE5_53
2: GRU1_53
3: Turuncu_67
4: Dallpop_68
5: Flapper_67
6: GTE8_53
7: Kabluna_67 + 4
8: MerCougar_66 + 2
9: Jifall16_63 + 4
10: Tracker_64 + 1
11: Arti_63
12: GrootJr_66 + 1
13: Foxboro_65
14: NatB6_64
15: Commandaria_65
16: Ennea_71 + 2
17: RedRaider_71
18: Float294_65
19: Skysand_66
20: IDyn_63 + 1
21: Sukkupi_65 + 3
22: NadineRae_64 + 2
23: Scuba_73 + 2
24: HomeFry_69
25: CoffeeBean_63 + 4
26: Gagieri_62
27: MacGully_72
28: LilyPad_59
29: ChewyVIII_76

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 347676 Report

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

Pham number 347676 has 55 members, 3 are drafts.

Phages represented in each track:
- Track 1 : GTE5_53
- Track 2 : GRU1_53
- Track 3 : Turuncu_67
- Track 4 : Dalilpop_68
- Track 5 : Flapper_67
- Track 6 : GTE8_53
- Track 7 : Kabluna_67, NosilaM_66, SuperSulley_66, Bonum_68, Buggaboo_66
- Track 8 : MerCougar_66, Outis_65, StarStruck_65
- Track 9 : Jifall16_63, Emianna_64, Phomeo_63, Kurt_64, KidneyBean_64
- Track 10 : Tracker_64, Wheezy_64
- Track 11 : Arti_63
- Track 12 : GrootJr_66, NovumRegina_64
- Track 13 : Foxboro_65
- Track 14 : NatB6_64
- Track 15 : Commandaria_65
- Track 16 : Ennea_71, Lollipop1437_68, Patio_66
- Track 17 : RedRaider_71
- Track 18 : Float294_65
- Track 19 : Skysand_66
- Track 20 : IDyn_63, HubbaBubba_59
- Track 21 : Sukkupi_65, Yndexa_65, Pemberton_66, BiPauneto_67
- Track 22 : NadineRae_64, Marietta_65, WhoseManz_64
- Track 23 : Scuba_73, Pleakley_73, Fury_73
- Track 24 : HomeFry_69
- Track 25 : CoffeeBean_63, Braxoaddie_63, Polyyuki_63, Maselop_63, Apiary_63
- Track 26 : Gagieri_62
- Track 27 : MacGully_72
- Track 28 : LilyPad_59
- Track 29 : ChewyVIII_76

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

The start number called the most often in the published annotations is 7, it was called in 43 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arti_63, BiPauneto_67, Bonum_68, Buggaboo_66, Commandaria_65, Dalilpop_68, Emianna_64, Ennea_71, Flapper_67, Float294_65, Foxboro_65, Fury_73, GRU1_53, GTE5_53, GTE8_53, GrootJr_66, HomeFry_69, HubbaBubba_59, IDyn_63, Jifall16_63, Kabluna_67, KidneyBean_64, Kurt_64, Lollipop1437_68, Marietta_65, MerCougar_66, NadineRae_64, NatB6_64, NosilaM_66, NovumRegina_64, Outis_65, Patio_66, Pemberton_66, Phomeo_63, Pleakley_73, RedRaider_71, Scuba_73, Skysand_66, StarStruck_65, Sukkupi_65, SuperSulley_66, Tracker_64, Turuncu_67, Wheezy_64, WhoseManz_64, Yndexa_65,

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

Genes that do not have the "Most Annotated" start:
• Apiary_63, Braxoaddie_63, ChewyVIII_76, CoffeeBean_63, Gagieri_62, LilyPad_59, MacGully_72, Maselop_63, Polyyuki_63,

Summary by start number:

Start 5:
• Found in 1 of 55 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChewyVIII_76 (singleton),

Start 6:
• Found in 1 of 55 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilyPad_59 (DG1),

Start 7:
• Found in 46 of 55 (83.6%) of genes in pham
• Manual Annotations of this start: 43 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arti_63 (CR2), BiPauneto_67 (CR4), Bonum_68 (CR2), Buggaboo_66 (CR2), Commandaria_65 (CR2), Dalilpop_68 (CR1), Emianna_64 (CR2), Ennea_71 (CR3), Flapper_67 (CR1), Float294_65 (CR3), Foxboro_65 (CR2), Fury_73 (CR5), GRU1_53 (CR1), GTE5_53 (CR1), GTE8_53 (CR2), GrootJr_66 (CR2), HomeFry_69 (CR5), HubbaBubba_59 (CR4), IDyn_63 (CR4), Jifall16_63 (CR2), Kabluna_67 (CR2), KidneyBean_64 (CR2), Kurt_64 (CR2), Lollipop1437_68 (CR3), Marietta_65 (CR4), MerCougar_66 (CR2), NadineRae_64 (CR4), NatB6_64 (CR2), NosilaM_66 (CR2), NovumRegina_64 (CR2), Outis_65 (CR2), Patio_66 (CR3), Pemberton_66 (CR4), Phomeo_63 (CR2), Pleakley_73 (CR5), RedRaider_71 (CR3), Scuba_73 (CR5), Skysand_66 (CR3), StarStruck_65 (CR2), Sukkupi_65 (CR4), SuperSulley_66 (CR2), Tracker_64 (CR2), Turuncu_67 (CR1), Wheezy_64 (CR2), WhoseManz_64 (CR4), Yndexa_65 (CR4),

Start 8:
• Found in 7 of 55 (12.7%) of genes in pham
• Manual Annotations of this start: 7 of 52
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Apiary_63 (CR6), Braxoaddie_63 (CR6), CoffeeBean_63 (CR6), Gagieri_62 (CR6), MacGully_72 (CR7), Maselop_63 (CR6), Polyyuki_63 (CR6),

Summary by clusters:

There are 9 clusters represented in this pham: CR2, CR3, singleton, CR1, CR6, CR7, CR4, CR5, DG1,

Info for manual annotations of cluster CR1:
•Start number 7 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 7 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 7 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 7 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 7 was manually annotated 4 times for cluster CR5.

Info for manual annotations of cluster CR6:
•Start number 8 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:
•Start number 8 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster DG1:
•Start number 6 was manually annotated 1 time for cluster DG1.

Gene Information:

Gene: Apiary_63 Start: 47507, Stop: 46644, Start Num: 8
Candidate Starts for Apiary_63:
(Start: 8 @47507 has 7 MA's), (10, 47498), (16, 47387), (17, 47381), (19, 47354), (20, 47345), (22, 47333), (30, 47201), (31, 47192), (34, 47144), (43, 47072), (53, 46976), (55, 46955), (72, 46850),

Gene: Arti_63 Start: 49955, Stop: 49029, Start Num: 7
Candidate Starts for Arti_63:
(Start: 7 @49955 has 43 MA's), (12, 49862), (17, 49826), (19, 49796), (25, 49712), (26, 49697), (32, 49613), (35, 49589), (41, 49544), (50, 49439), (54, 49394), (57, 49364), (58, 49340), (62, 49319), (70, 49268),

Gene: BiPauneto_67 Start: 49589, Stop: 48723, Start Num: 7
Candidate Starts for BiPauneto_67:
(Start: 7 @49589 has 43 MA's), (12, 49496), (14, 49478), (19, 49430), (25, 49346), (26, 49331), (29, 49286), (46, 49115),

Gene: Bonum_68 Start: 50826, Stop: 49897, Start Num: 7
Candidate Starts for Bonum_68:
(Start: 7 @50826 has 43 MA's), (9, 50820), (16, 50703), (19, 50655), (25, 50571), (26, 50556), (32, 50472), (34, 50451), (39, 50418), (40, 50406), (57, 50220), (65, 50157), (77, 50025), (79, 49995),

Gene: Braxoaddie_63 Start: 47496, Stop: 46633, Start Num: 8
Candidate Starts for Braxoaddie_63:
(Start: 8 @47496 has 7 MA's), (10, 47487), (16, 47376), (17, 47370), (19, 47343), (20, 47334), (22, 47322), (30, 47190), (31, 47181), (34, 47133), (43, 47061), (53, 46965), (55, 46944), (72, 46839),

Gene: Buggaboo_66 Start: 51377, Stop: 50454, Start Num: 7
Candidate Starts for Buggaboo_66:
(Start: 7 @51377 has 43 MA's), (9, 51371), (16, 51254), (19, 51206), (25, 51122), (26, 51107), (32, 51023), (34, 51002), (39, 50969), (40, 50957), (57, 50771), (65, 50705), (77, 50570), (79, 50540),

Gene: ChewyVIII_76 Start: 55998, Stop: 55171, Start Num: 5
Candidate Starts for ChewyVIII_76:
(Start: 5 @55998 has 1 MA's), (18, 55857), (33, 55626), (36, 55602), (37, 55596), (45, 55539), (47, 55500), (64, 55356), (67, 55341), (69, 55323),

Gene: CoffeeBean_63 Start: 47454, Stop: 46591, Start Num: 8
Candidate Starts for CoffeeBean_63:
(Start: 8 @47454 has 7 MA's), (10, 47445), (16, 47334), (17, 47328), (19, 47301), (20, 47292), (22, 47280), (30, 47148), (31, 47139), (34, 47091), (43, 47019), (53, 46923), (55, 46902), (72, 46797),

Gene: Commandaria_65 Start: 51201, Stop: 50332, Start Num: 7
Candidate Starts for Commandaria_65:
(Start: 7 @51201 has 43 MA's), (17, 51072), (19, 51042), (26, 50943), (27, 50922), (29, 50898), (62, 50583), (63, 50580), (68, 50547), (73, 50520), (74, 50517), (81, 50373),

Gene: Dalilpop_68 Start: 52146, Stop: 51265, Start Num: 7
Candidate Starts for Dalilpop_68:
(2, 52299), (4, 52215), (Start: 7 @52146 has 43 MA's), (11, 52062), (15, 52032), (26, 51888), (35, 51780), (41, 51735), (43, 51702), (49, 51645), (50, 51630), (57, 51555), (66, 51498),

Gene: Emianna_64 Start: 51187, Stop: 50270, Start Num: 7
Candidate Starts for Emianna_64:
(Start: 7 @51187 has 43 MA's), (12, 51094), (17, 51058), (19, 51028), (25, 50944), (26, 50929), (32, 50845), (35, 50821), (41, 50776), (50, 50671), (54, 50626), (57, 50596), (58, 50572), (61, 50554), (79, 50356),

Gene: Ennea_71 Start: 52225, Stop: 51320, Start Num: 7
Candidate Starts for Ennea_71:
(Start: 7 @52225 has 43 MA's), (11, 52141), (21, 52054), (24, 51985), (26, 51967), (31, 51910), (35, 51859), (37, 51838), (44, 51778), (50, 51709), (54, 51664), (69, 51556),

Gene: Flapper_67 Start: 51337, Stop: 50456, Start Num: 7
Candidate Starts for Flapper_67:
(1, 51505), (4, 51406), (Start: 7 @51337 has 43 MA's), (11, 51253), (15, 51223), (25, 51094), (26, 51079), (35, 50971), (41, 50926), (49, 50836), (50, 50821), (57, 50746), (66, 50689),

Gene: Float294_65 Start: 51940, Stop: 51053, Start Num: 7
Candidate Starts for Float294_65:

(Start: 7 @51940 has 43 MA's), (11, 51856), (24, 51700), (26, 51682), (31, 51625), (35, 51574), (37, 51553), (44, 51493), (50, 51424), (54, 51379), (74, 51244),

Gene: Foxboro_65 Start: 51712, Stop: 50783, Start Num: 7
Candidate Starts for Foxboro_65:
(Start: 7 @51712 has 43 MA's), (12, 51619), (17, 51583), (19, 51553), (25, 51469), (26, 51454), (35, 51346), (41, 51301), (50, 51196), (54, 51151), (57, 51121), (58, 51097), (61, 51079), (79, 50881),

Gene: Fury_73 Start: 50445, Stop: 49570, Start Num: 7
Candidate Starts for Fury_73:
(Start: 7 @50445 has 43 MA's), (16, 50322), (19, 50286), (21, 50274), (26, 50187), (32, 50103), (43, 50001), (44, 49998), (52, 49914), (78, 49674),

Gene: GRU1_53 Start: 43185, Stop: 42307, Start Num: 7
Candidate Starts for GRU1_53:
(2, 43338), (4, 43254), (Start: 7 @43185 has 43 MA's), (11, 43101), (15, 43071), (26, 42927), (35, 42819), (41, 42774), (43, 42741), (49, 42684), (50, 42669), (57, 42597), (66, 42540),

Gene: GTE5_53 Start: 44217, Stop: 43333, Start Num: 7
Candidate Starts for GTE5_53:
(2, 44370), (4, 44286), (Start: 7 @44217 has 43 MA's), (11, 44133), (15, 44103), (25, 43974), (26, 43959), (35, 43851), (38, 43827), (41, 43806), (49, 43716), (50, 43701), (57, 43626), (66, 43569),

Gene: GTE8_53 Start: 44425, Stop: 43535, Start Num: 7
Candidate Starts for GTE8_53:
(Start: 7 @44425 has 43 MA's), (12, 44332), (17, 44296), (19, 44266), (25, 44182), (26, 44167), (32, 44083), (35, 44059), (41, 44014), (43, 43981), (44, 43978), (46, 43951), (54, 43864), (57, 43834), (58, 43810), (59, 43807), (62, 43777),

Gene: Gagieri_62 Start: 47543, Stop: 46830, Start Num: 8
Candidate Starts for Gagieri_62:
(Start: 8 @47543 has 7 MA's), (10, 47534), (19, 47390), (20, 47381), (25, 47300), (30, 47237), (31, 47228), (34, 47180), (42, 47117), (43, 47108), (53, 47012),

Gene: GrootJr_66 Start: 50581, Stop: 49652, Start Num: 7
Candidate Starts for GrootJr_66:
(Start: 7 @50581 has 43 MA's), (12, 50488), (17, 50452), (19, 50422), (25, 50338), (26, 50323), (32, 50239), (35, 50215), (41, 50170), (50, 50065), (54, 50020), (57, 49990), (58, 49969),

Gene: HomeFry_69 Start: 49149, Stop: 48265, Start Num: 7
Candidate Starts for HomeFry_69:
(Start: 7 @49149 has 43 MA's), (17, 49020), (19, 48990), (21, 48978), (26, 48891), (34, 48786), (40, 48741), (52, 48618), (76, 48393),

Gene: HubbaBubba_59 Start: 46075, Stop: 45227, Start Num: 7
Candidate Starts for HubbaBubba_59:
(Start: 7 @46075 has 43 MA's), (14, 45964), (19, 45916), (25, 45832), (26, 45817),

Gene: IDyn_63 Start: 47510, Stop: 46650, Start Num: 7
Candidate Starts for IDyn_63:
(Start: 7 @47510 has 43 MA's), (14, 47399), (19, 47351), (25, 47267), (26, 47252),

Gene: Jifall16_63 Start: 50843, Stop: 49926, Start Num: 7

Candidate Starts for Jifall16_63:
(Start: 7 @50843 has 43 MA's), (12, 50750), (17, 50714), (19, 50684), (25, 50600), (26, 50585), (32, 50501), (35, 50477), (41, 50432), (50, 50327), (54, 50282), (57, 50252), (58, 50228), (61, 50210), (79, 50012),

Gene: Kabluna_67 Start: 50155, Stop: 49232, Start Num: 7
Candidate Starts for Kabluna_67:
(Start: 7 @50155 has 43 MA's), (9, 50149), (16, 50032), (19, 49984), (25, 49900), (26, 49885), (32, 49801), (34, 49780), (39, 49747), (40, 49735), (57, 49549), (65, 49486), (77, 49354), (79, 49324),

Gene: KidneyBean_64 Start: 50967, Stop: 50050, Start Num: 7
Candidate Starts for KidneyBean_64:
(Start: 7 @50967 has 43 MA's), (12, 50874), (17, 50838), (19, 50808), (25, 50724), (26, 50709), (32, 50625), (35, 50601), (41, 50556), (50, 50451), (54, 50406), (57, 50376), (58, 50352), (61, 50334), (79, 50136),

Gene: Kurt_64 Start: 51202, Stop: 50285, Start Num: 7
Candidate Starts for Kurt_64:
(Start: 7 @51202 has 43 MA's), (12, 51109), (17, 51073), (19, 51043), (25, 50959), (26, 50944), (32, 50860), (35, 50836), (41, 50791), (50, 50686), (54, 50641), (57, 50611), (58, 50587), (61, 50569), (79, 50371),

Gene: LilyPad_59 Start: 43912, Stop: 44631, Start Num: 6
Candidate Starts for LilyPad_59:
(Start: 6 @43912 has 1 MA's), (19, 44080), (21, 44092), (28, 44185), (63, 44506),

Gene: Lollipop1437_68 Start: 51905, Stop: 51018, Start Num: 7
Candidate Starts for Lollipop1437_68:
(Start: 7 @51905 has 43 MA's), (11, 51821), (21, 51734), (24, 51665), (26, 51647), (31, 51590), (35, 51539), (37, 51518), (44, 51458), (50, 51389), (54, 51344), (69, 51236),

Gene: MacGully_72 Start: 50738, Stop: 49836, Start Num: 8
Candidate Starts for MacGully_72:
(Start: 8 @50738 has 7 MA's), (13, 50642), (15, 50627), (19, 50582), (23, 50507), (31, 50420), (44, 50282), (67, 50075), (71, 50048), (80, 49895),

Gene: Marietta_65 Start: 47622, Stop: 46780, Start Num: 7
Candidate Starts for Marietta_65:
(Start: 7 @47622 has 43 MA's), (12, 47529), (14, 47511), (19, 47463), (25, 47379), (26, 47364), (46, 47148), (48, 47136),

Gene: Maselop_63 Start: 47530, Stop: 46667, Start Num: 8
Candidate Starts for Maselop_63:
(Start: 8 @47530 has 7 MA's), (10, 47521), (16, 47410), (17, 47404), (19, 47377), (20, 47368), (22, 47356), (30, 47224), (31, 47215), (34, 47167), (43, 47095), (53, 46999), (55, 46978), (72, 46873),

Gene: MerCougar_66 Start: 51512, Stop: 50613, Start Num: 7
Candidate Starts for MerCougar_66:
(Start: 7 @51512 has 43 MA's), (9, 51506), (16, 51389), (19, 51341), (26, 51242), (32, 51158), (35, 51134), (39, 51104), (40, 51092), (43, 51056), (51, 50972), (57, 50906), (60, 50870), (79, 50699),

Gene: NadineRae_64 Start: 47231, Stop: 46386, Start Num: 7
Candidate Starts for NadineRae_64:

(Start: 7 @47231 has 43 MA's), (12, 47138), (14, 47120), (19, 47072), (25, 46988), (26, 46973), (46, 46757), (48, 46745),

Gene: NatB6_64 Start: 50271, Stop: 49339, Start Num: 7
Candidate Starts for NatB6_64:
(Start: 7 @50271 has 43 MA's), (12, 50178), (17, 50142), (19, 50112), (25, 50028), (26, 50013), (32, 49929), (35, 49905), (41, 49860), (50, 49755), (54, 49710), (58, 49659),

Gene: NosilaM_66 Start: 50826, Stop: 49909, Start Num: 7
Candidate Starts for NosilaM_66:
(Start: 7 @50826 has 43 MA's), (9, 50820), (16, 50703), (19, 50655), (25, 50571), (26, 50556), (32, 50472), (34, 50451), (39, 50418), (40, 50406), (57, 50220), (65, 50154), (77, 50019), (79, 49989),

Gene: NovumRegina_64 Start: 50580, Stop: 49651, Start Num: 7
Candidate Starts for NovumRegina_64:
(Start: 7 @50580 has 43 MA's), (12, 50487), (17, 50451), (19, 50421), (25, 50337), (26, 50322), (32, 50238), (35, 50214), (41, 50169), (50, 50064), (54, 50019), (57, 49989), (58, 49968),

Gene: Outis_65 Start: 51027, Stop: 50125, Start Num: 7
Candidate Starts for Outis_65:
(Start: 7 @51027 has 43 MA's), (9, 51021), (16, 50904), (19, 50856), (26, 50757), (32, 50673), (35, 50649), (39, 50619), (40, 50607), (43, 50571), (51, 50487), (57, 50421), (60, 50385), (79, 50217),

Gene: Patio_66 Start: 50962, Stop: 50075, Start Num: 7
Candidate Starts for Patio_66:
(Start: 7 @50962 has 43 MA's), (11, 50878), (21, 50791), (24, 50722), (26, 50704), (31, 50647), (35, 50596), (37, 50575), (44, 50515), (50, 50446), (54, 50401), (69, 50293),

Gene: Pemberton_66 Start: 47984, Stop: 47130, Start Num: 7
Candidate Starts for Pemberton_66:
(Start: 7 @47984 has 43 MA's), (12, 47891), (14, 47873), (19, 47825), (25, 47741), (26, 47726), (29, 47681), (46, 47510),

Gene: Phomeo_63 Start: 50839, Stop: 49922, Start Num: 7
Candidate Starts for Phomeo_63:
(Start: 7 @50839 has 43 MA's), (12, 50746), (17, 50710), (19, 50680), (25, 50596), (26, 50581), (32, 50497), (35, 50473), (41, 50428), (50, 50323), (54, 50278), (57, 50248), (58, 50224), (61, 50206), (79, 50008),

Gene: Pleakley_73 Start: 50446, Stop: 49571, Start Num: 7
Candidate Starts for Pleakley_73:
(Start: 7 @50446 has 43 MA's), (16, 50323), (19, 50287), (21, 50275), (26, 50188), (32, 50104), (43, 50002), (44, 49999), (52, 49915), (78, 49675),

Gene: Polyyuki_63 Start: 47519, Stop: 46656, Start Num: 8
Candidate Starts for Polyyuki_63:
(Start: 8 @47519 has 7 MA's), (10, 47510), (16, 47399), (17, 47393), (19, 47366), (20, 47357), (22, 47345), (30, 47213), (31, 47204), (34, 47156), (43, 47084), (53, 46988), (55, 46967), (72, 46862),

Gene: RedRaider_71 Start: 53281, Stop: 52397, Start Num: 7
Candidate Starts for RedRaider_71:
(3, 53383), (Start: 7 @53281 has 43 MA's), (11, 53197), (24, 53041), (26, 53023), (31, 52966), (35, 52915), (37, 52894), (44, 52834), (50, 52765), (54, 52720), (69, 52615), (75, 52540),

Gene: Scuba_73 Start: 50531, Stop: 49665, Start Num: 7
Candidate Starts for Scuba_73:
(Start: 7 @50531 has 43 MA's), (16, 50408), (19, 50372), (21, 50360), (26, 50273), (32, 50189), (43, 50087), (44, 50084), (52, 50000), (78, 49772),

Gene: Skysand_66 Start: 51440, Stop: 50556, Start Num: 7
Candidate Starts for Skysand_66:
(Start: 7 @51440 has 43 MA's), (11, 51356), (24, 51200), (26, 51182), (31, 51125), (35, 51074), (37, 51053), (44, 50993), (50, 50924), (54, 50879), (69, 50771),

Gene: StarStruck_65 Start: 51027, Stop: 50125, Start Num: 7
Candidate Starts for StarStruck_65:
(Start: 7 @51027 has 43 MA's), (9, 51021), (16, 50904), (19, 50856), (26, 50757), (32, 50673), (35, 50649), (39, 50619), (40, 50607), (43, 50571), (51, 50487), (57, 50421), (60, 50385), (79, 50217),

Gene: Sukkupi_65 Start: 49462, Stop: 48614, Start Num: 7
Candidate Starts for Sukkupi_65:
(Start: 7 @49462 has 43 MA's), (12, 49369), (14, 49351), (19, 49303), (25, 49219), (26, 49204), (29, 49159), (46, 48988),

Gene: SuperSulley_66 Start: 51377, Stop: 50454, Start Num: 7
Candidate Starts for SuperSulley_66:
(Start: 7 @51377 has 43 MA's), (9, 51371), (16, 51254), (19, 51206), (25, 51122), (26, 51107), (32, 51023), (34, 51002), (39, 50969), (40, 50957), (57, 50771), (65, 50705), (77, 50570), (79, 50540),

Gene: Tracker_64 Start: 50015, Stop: 49095, Start Num: 7
Candidate Starts for Tracker_64:
(Start: 7 @50015 has 43 MA's), (12, 49922), (17, 49886), (19, 49856), (25, 49772), (26, 49757), (32, 49673), (35, 49649), (41, 49604), (50, 49499), (54, 49454), (57, 49424), (58, 49400), (62, 49379),

Gene: Turuncu_67 Start: 51020, Stop: 50145, Start Num: 7
Candidate Starts for Turuncu_67:
(1, 51188), (4, 51089), (Start: 7 @51020 has 43 MA's), (15, 50906), (25, 50777), (26, 50762), (35, 50654), (41, 50609), (49, 50519), (50, 50504), (56, 50444), (57, 50429), (66, 50372),

Gene: Wheezy_64 Start: 50229, Stop: 49303, Start Num: 7
Candidate Starts for Wheezy_64:
(Start: 7 @50229 has 43 MA's), (12, 50136), (17, 50100), (19, 50070), (25, 49986), (26, 49971), (32, 49887), (35, 49863), (41, 49818), (50, 49713), (54, 49668), (57, 49638), (58, 49614), (62, 49593),

Gene: WhoseManz_64 Start: 47289, Stop: 46396, Start Num: 7
Candidate Starts for WhoseManz_64:
(Start: 7 @47289 has 43 MA's), (12, 47196), (14, 47178), (19, 47130), (25, 47046), (26, 47031), (46, 46815), (48, 46803),

Gene: Yndexa_65 Start: 49462, Stop: 48614, Start Num: 7
Candidate Starts for Yndexa_65:
(Start: 7 @49462 has 43 MA's), (12, 49369), (14, 49351), (19, 49303), (25, 49219), (26, 49204), (29, 49159), (46, 48988),