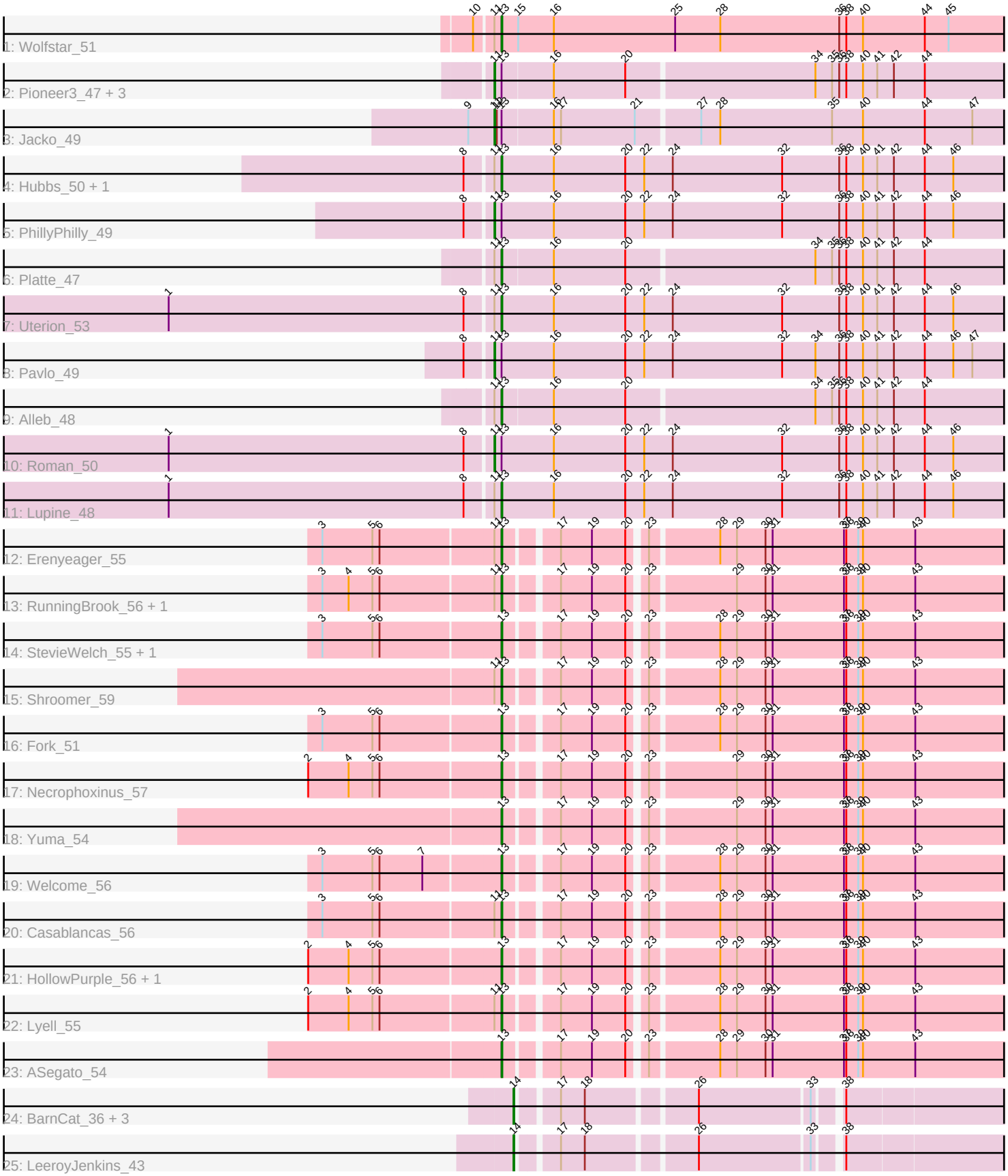
Zoomed Pham 347844



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 347844 Report

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

Pham number 347844 has 35 members, 0 are drafts.

Phages represented in each track:
- Track 1 : Wolfstar_51
- Track 2 : Pioneer3_47, Tandem_47, OlinDD_47, Hortus1_47
- Track 3 : Jacko_49
- Track 4 : Hubbs_50, DejaVu_51
- Track 5 : PhillyPhilly_49
- Track 6 : Platte_47
- Track 7 : Uterion_53
- Track 8 : Pavlo_49
- Track 9 : Alleb_48
- Track 10 : Roman_50
- Track 11 : Lupine_48
- Track 12 : Erenyeager_55
- Track 13 : RunningBrook_56, DustyDino_58
- Track 14 : StevieWelch_55, Musetta_55
- Track 15 : Shroomer_59
- Track 16 : Fork_51
- Track 17 : Necrophoxinus_57
- Track 18 : Yuma_54
- Track 19 : Welcome_56
- Track 20 : Casablancas_56
- Track 21 : HollowPurple_56, SteakFry_57
- Track 22 : Lyell_55
- Track 23 : ASegato_54
- Track 24 : BarnCat_36, Cassita_42, WaterT_41, Lifes_38
- Track 25 : LeeroyJenkins_43

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

The start number called the most often in the published annotations is 13, it was called in 22 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- ASegato_54, Alleb_48, Casablancas_56, DejaVu_51, DustyDino_58, Erenyeager_55, Fork_51, HollowPurple_56, Hubbs_50, Lupine_48, Lyell_55,

Musetta_55, Necrophoxinus_57, Platte_47, RunningBrook_56, Shroomer_59, SteakFry_57, StevieWelch_55, Uterion_53, Welcome_56, Wolfstar_51, Yuma_54,

Genes that have the "Most Annotated" start but do not call it:
• Hortus1_47, Jacko_49, OlinDD_47, Pavlo_49, PhillyPhilly_49, Pioneer3_47, Roman_50, Tandem_47,

Genes that do not have the "Most Annotated" start:
• BarnCat_36, Cassita_42, LeeroyJenkins_43, Lifes_38, WaterT_41,

Summary by start number:

Start 11:
• Found in 21 of 35 (60.0%) of genes in pham
• Manual Annotations of this start: 8 of 35
• Called 38.1% of time when present
• Phage (with cluster) where this start called: Hortus1_47 (ED1), Jacko_49 (ED1), OlinDD_47 (ED1), Pavlo_49 (ED1), PhillyPhilly_49 (ED1), Pioneer3_47 (ED1), Roman_50 (ED1), Tandem_47 (ED1),

Start 13:
• Found in 30 of 35 (85.7%) of genes in pham
• Manual Annotations of this start: 22 of 35
• Called 73.3% of time when present
• Phage (with cluster) where this start called: ASegato_54 (ED2), Alleb_48 (ED1), Casablancas_56 (ED2), DejaVu_51 (ED1), DustyDino_58 (ED2), Erenyeager_55 (ED2), Fork_51 (ED2), HollowPurple_56 (ED2), Hubbs_50 (ED1), Lupine_48 (ED1), Lyell_55 (ED2), Musetta_55 (ED2), Necrophoxinus_57 (ED2), Platte_47 (ED1), RunningBrook_56 (ED2), Shroomer_59 (ED2), SteakFry_57 (ED2), StevieWelch_55 (ED2), Uterion_53 (ED1), Welcome_56 (ED2), Wolfstar_51 (ED), Yuma_54 (ED2),

Start 14:
• Found in 5 of 35 (14.3%) of genes in pham
• Manual Annotations of this start: 5 of 35
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarnCat_36 (GB), Cassita_42 (GB), LeeroyJenkins_43 (GB), Lifes_38 (GB), WaterT_41 (GB),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, ED1, GB,

Info for manual annotations of cluster ED:
•Start number 13 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 11 was manually annotated 8 times for cluster ED1.
•Start number 13 was manually annotated 6 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 13 was manually annotated 15 times for cluster ED2.

Info for manual annotations of cluster GB:

•Start number 14 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: ASegato_54 Start: 25411, Stop: 26558, Start Num: 13
Candidate Starts for ASegato_54:
(Start: 13 @25411 has 22 MA's), (17, 25468), (19, 25507), (20, 25549), (23, 25567), (28, 25648), (29, 25669), (30, 25705), (31, 25714), (37, 25804), (38, 25807), (39, 25822), (40, 25828), (43, 25894), (60, 26413), (65, 26470), (67, 26509), (68, 26533), (69, 26545),

Gene: Alleb_48 Start: 24469, Stop: 25643, Start Num: 13
Candidate Starts for Alleb_48:
(Start: 11 @24460 has 8 MA's), (Start: 13 @24469 has 22 MA's), (16, 24532), (20, 24622), (34, 24853), (35, 24874), (36, 24883), (38, 24892), (40, 24913), (41, 24931), (42, 24952), (44, 24991), (50, 25174), (55, 25408), (60, 25498),

Gene: BarnCat_36 Start: 18745, Stop: 19772, Start Num: 14
Candidate Starts for BarnCat_36:
(Start: 14 @18745 has 5 MA's), (17, 18787), (18, 18817), (26, 18943), (33, 19078), (38, 19105), (48, 19303), (51, 19402), (54, 19570), (56, 19609), (62, 19702),

Gene: Casablancas_56 Start: 25496, Stop: 26643, Start Num: 13
Candidate Starts for Casablancas_56:
(3, 25277), (5, 25340), (6, 25349), (Start: 11 @25487 has 8 MA's), (Start: 13 @25496 has 22 MA's), (17, 25553), (19, 25592), (20, 25634), (23, 25652), (28, 25733), (29, 25754), (30, 25790), (31, 25799), (37, 25889), (38, 25892), (39, 25907), (40, 25913), (43, 25979), (60, 26498), (65, 26555), (66, 26570), (67, 26594), (68, 26618), (69, 26630),

Gene: Cassita_42 Start: 21121, Stop: 22148, Start Num: 14
Candidate Starts for Cassita_42:
(Start: 14 @21121 has 5 MA's), (17, 21163), (18, 21193), (26, 21319), (33, 21454), (38, 21481), (48, 21679), (51, 21778), (54, 21946), (56, 21985), (62, 22078),

Gene: DejaVu_51 Start: 24677, Stop: 25863, Start Num: 13
Candidate Starts for DejaVu_51:
(8, 24638), (Start: 11 @24668 has 8 MA's), (Start: 13 @24677 has 22 MA's), (16, 24743), (20, 24833), (22, 24857), (24, 24893), (32, 25031), (36, 25103), (38, 25112), (40, 25133), (41, 25151), (42, 25172), (44, 25211), (46, 25247), (50, 25394), (52, 25439), (57, 25652), (63, 25754), (64, 25766), (65, 25781),

Gene: DustyDino_58 Start: 26354, Stop: 27501, Start Num: 13
Candidate Starts for DustyDino_58:
(3, 26135), (4, 26168), (5, 26198), (6, 26207), (Start: 11 @26345 has 8 MA's), (Start: 13 @26354 has 22 MA's), (17, 26411), (19, 26450), (20, 26492), (23, 26510), (29, 26612), (30, 26648), (31, 26657), (37, 26747), (38, 26750), (39, 26765), (40, 26771), (43, 26837), (60, 27356), (65, 27413), (67, 27452), (68, 27476), (69, 27488),

Gene: Erenyeager_55 Start: 25746, Stop: 26893, Start Num: 13
Candidate Starts for Erenyeager_55:
(3, 25527), (5, 25590), (6, 25599), (Start: 11 @25737 has 8 MA's), (Start: 13 @25746 has 22 MA's), (17, 25803), (19, 25842), (20, 25884), (23, 25902), (28, 25983), (29, 26004), (30, 26040), (31, 26049), (37, 26139), (38, 26142), (39, 26157), (40, 26163), (43, 26229), (59, 26745), (60, 26748), (65, 26805),

(66, 26820), (67, 26844), (68, 26868), (69, 26880),

Gene: Fork_51 Start: 25061, Stop: 26208, Start Num: 13
Candidate Starts for Fork_51:
(3, 24842), (5, 24905), (6, 24914), (Start: 13 @25061 has 22 MA's), (17, 25118), (19, 25157), (20, 25199), (23, 25217), (28, 25298), (29, 25319), (30, 25355), (31, 25364), (37, 25454), (38, 25457), (39, 25472), (40, 25478), (43, 25544), (60, 26063), (65, 26120), (67, 26159), (68, 26183), (69, 26195),

Gene: HollowPurple_56 Start: 25617, Stop: 26764, Start Num: 13
Candidate Starts for HollowPurple_56:
(2, 25380), (4, 25431), (5, 25461), (6, 25470), (Start: 13 @25617 has 22 MA's), (17, 25674), (19, 25713), (20, 25755), (23, 25773), (28, 25854), (29, 25875), (30, 25911), (31, 25920), (37, 26010), (38, 26013), (39, 26028), (40, 26034), (43, 26100), (60, 26619), (65, 26676), (66, 26691), (67, 26715), (68, 26739), (69, 26751),

Gene: Hortus1_47 Start: 24450, Stop: 25633, Start Num: 11
Candidate Starts for Hortus1_47:
(Start: 11 @24450 has 8 MA's), (Start: 13 @24459 has 22 MA's), (16, 24522), (20, 24612), (34, 24843), (35, 24864), (36, 24873), (38, 24882), (40, 24903), (41, 24921), (42, 24942), (44, 24981), (49, 25110), (50, 25164), (55, 25398), (60, 25488),

Gene: Hubbs_50 Start: 24889, Stop: 26075, Start Num: 13
Candidate Starts for Hubbs_50:
(8, 24850), (Start: 11 @24880 has 8 MA's), (Start: 13 @24889 has 22 MA's), (16, 24955), (20, 25045), (22, 25069), (24, 25105), (32, 25243), (36, 25315), (38, 25324), (40, 25345), (41, 25363), (42, 25384), (44, 25423), (46, 25459), (50, 25606), (52, 25651), (57, 25864), (63, 25966), (64, 25978), (65, 25993),

Gene: Jacko_49 Start: 22655, Stop: 23829, Start Num: 11
Candidate Starts for Jacko_49:
(9, 22622), (Start: 11 @22655 has 8 MA's), (12, 22658), (Start: 13 @22664 has 22 MA's), (16, 22727), (17, 22736), (21, 22829), (27, 22904), (28, 22928), (35, 23069), (40, 23108), (44, 23186), (47, 23246), (50, 23369), (52, 23414), (53, 23543), (58, 23678), (60, 23696), (61, 23702), (65, 23750), (68, 23813),

Gene: LeeroyJenkins_43 Start: 22004, Stop: 23031, Start Num: 14
Candidate Starts for LeeroyJenkins_43:
(Start: 14 @22004 has 5 MA's), (17, 22046), (18, 22076), (26, 22202), (33, 22337), (38, 22364), (48, 22562), (51, 22661), (54, 22829), (56, 22868), (62, 22961),

Gene: Lifes_38 Start: 18776, Stop: 19803, Start Num: 14
Candidate Starts for Lifes_38:
(Start: 14 @18776 has 5 MA's), (17, 18818), (18, 18848), (26, 18974), (33, 19109), (38, 19136), (48, 19334), (51, 19433), (54, 19601), (56, 19640), (62, 19733),

Gene: Lupine_48 Start: 24091, Stop: 25277, Start Num: 13
Candidate Starts for Lupine_48:
(1, 23680), (8, 24052), (Start: 11 @24082 has 8 MA's), (Start: 13 @24091 has 22 MA's), (16, 24157), (20, 24247), (22, 24271), (24, 24307), (32, 24445), (36, 24517), (38, 24526), (40, 24547), (41, 24565), (42, 24586), (44, 24625), (46, 24661), (49, 24754), (50, 24808), (52, 24853), (55, 25042), (57, 25066), (63, 25168), (64, 25180), (65, 25195),

Gene: Lyell_55 Start: 25665, Stop: 26812, Start Num: 13
Candidate Starts for Lyell_55:

(2, 25428), (4, 25479), (5, 25509), (6, 25518), (Start: 11 @25656 has 8 MA's), (Start: 13 @25665 has 22 MA's), (17, 25722), (19, 25761), (20, 25803), (23, 25821), (28, 25902), (29, 25923), (30, 25959), (31, 25968), (37, 26058), (38, 26061), (39, 26076), (40, 26082), (43, 26148), (60, 26667), (65, 26724), (66, 26739), (67, 26763), (68, 26787), (69, 26799),

Gene: Musetta_55 Start: 25781, Stop: 26928, Start Num: 13
Candidate Starts for Musetta_55:
(3, 25562), (5, 25625), (6, 25634), (Start: 13 @25781 has 22 MA's), (17, 25838), (19, 25877), (20, 25919), (23, 25937), (28, 26018), (29, 26039), (30, 26075), (31, 26084), (37, 26174), (38, 26177), (39, 26192), (40, 26198), (43, 26264), (60, 26783), (65, 26840), (66, 26855), (67, 26879), (68, 26903), (69, 26915),

Gene: Necrophoxinus_57 Start: 26360, Stop: 27507, Start Num: 13
Candidate Starts for Necrophoxinus_57:
(2, 26123), (4, 26174), (5, 26204), (6, 26213), (Start: 13 @26360 has 22 MA's), (17, 26417), (19, 26456), (20, 26498), (23, 26516), (29, 26618), (30, 26654), (31, 26663), (37, 26753), (38, 26756), (39, 26771), (40, 26777), (43, 26843), (60, 27362), (65, 27419), (67, 27458), (68, 27482), (69, 27494),

Gene: OlinDD_47 Start: 24449, Stop: 25632, Start Num: 11
Candidate Starts for OlinDD_47:
(Start: 11 @24449 has 8 MA's), (Start: 13 @24458 has 22 MA's), (16, 24521), (20, 24611), (34, 24842), (35, 24863), (36, 24872), (38, 24881), (40, 24902), (41, 24920), (42, 24941), (44, 24980), (49, 25109), (50, 25163), (55, 25397), (60, 25487),

Gene: Pavlo_49 Start: 24727, Stop: 25922, Start Num: 11
Candidate Starts for Pavlo_49:
(8, 24697), (Start: 11 @24727 has 8 MA's), (Start: 13 @24736 has 22 MA's), (16, 24802), (20, 24892), (22, 24916), (24, 24952), (32, 25090), (34, 25132), (36, 25162), (38, 25171), (40, 25192), (41, 25210), (42, 25231), (44, 25270), (46, 25306), (47, 25330), (50, 25453), (52, 25498), (57, 25711), (63, 25813), (64, 25825), (65, 25840),

Gene: PhillyPhilly_49 Start: 24261, Stop: 25456, Start Num: 11
Candidate Starts for PhillyPhilly_49:
(8, 24231), (Start: 11 @24261 has 8 MA's), (Start: 13 @24270 has 22 MA's), (16, 24336), (20, 24426), (22, 24450), (24, 24486), (32, 24624), (36, 24696), (38, 24705), (40, 24726), (41, 24744), (42, 24765), (44, 24804), (46, 24840), (50, 24987), (52, 25032), (57, 25245), (63, 25347), (64, 25359), (65, 25374),

Gene: Pioneer3_47 Start: 24457, Stop: 25640, Start Num: 11
Candidate Starts for Pioneer3_47:
(Start: 11 @24457 has 8 MA's), (Start: 13 @24466 has 22 MA's), (16, 24529), (20, 24619), (34, 24850), (35, 24871), (36, 24880), (38, 24889), (40, 24910), (41, 24928), (42, 24949), (44, 24988), (49, 25117), (50, 25171), (55, 25405), (60, 25495),

Gene: Platte_47 Start: 24251, Stop: 25425, Start Num: 13
Candidate Starts for Platte_47:
(Start: 11 @24242 has 8 MA's), (Start: 13 @24251 has 22 MA's), (16, 24314), (20, 24404), (34, 24635), (35, 24656), (36, 24665), (38, 24674), (40, 24695), (41, 24713), (42, 24734), (44, 24773), (49, 24902), (50, 24956), (55, 25190), (60, 25280),

Gene: Roman_50 Start: 24728, Stop: 25923, Start Num: 11
Candidate Starts for Roman_50:
(1, 24326), (8, 24698), (Start: 11 @24728 has 8 MA's), (Start: 13 @24737 has 22 MA's), (16, 24803), (20, 24893), (22, 24917), (24, 24953), (32, 25091), (36, 25163), (38, 25172), (40, 25193), (41, 25211),

(42, 25232), (44, 25271), (46, 25307), (50, 25454), (52, 25499), (57, 25712), (63, 25814), (64, 25826), (65, 25841),

Gene: RunningBrook_56 Start: 26354, Stop: 27501, Start Num: 13
Candidate Starts for RunningBrook_56:
(3, 26135), (4, 26168), (5, 26198), (6, 26207), (Start: 11 @26345 has 8 MA's), (Start: 13 @26354 has 22 MA's), (17, 26411), (19, 26450), (20, 26492), (23, 26510), (29, 26612), (30, 26648), (31, 26657), (37, 26747), (38, 26750), (39, 26765), (40, 26771), (43, 26837), (60, 27356), (65, 27413), (67, 27452), (68, 27476), (69, 27488),

Gene: Shroomer_59 Start: 25896, Stop: 27043, Start Num: 13
Candidate Starts for Shroomer_59:
(Start: 11 @25887 has 8 MA's), (Start: 13 @25896 has 22 MA's), (17, 25953), (19, 25992), (20, 26034), (23, 26052), (28, 26133), (29, 26154), (30, 26190), (31, 26199), (37, 26289), (38, 26292), (39, 26307), (40, 26313), (43, 26379), (60, 26898), (65, 26955), (66, 26970), (67, 26994), (68, 27018), (69, 27030),

Gene: SteakFry_57 Start: 25617, Stop: 26764, Start Num: 13
Candidate Starts for SteakFry_57:
(2, 25380), (4, 25431), (5, 25461), (6, 25470), (Start: 13 @25617 has 22 MA's), (17, 25674), (19, 25713), (20, 25755), (23, 25773), (28, 25854), (29, 25875), (30, 25911), (31, 25920), (37, 26010), (38, 26013), (39, 26028), (40, 26034), (43, 26100), (60, 26619), (65, 26676), (66, 26691), (67, 26715), (68, 26739), (69, 26751),

Gene: StevieWelch_55 Start: 25746, Stop: 26893, Start Num: 13
Candidate Starts for StevieWelch_55:
(3, 25527), (5, 25590), (6, 25599), (Start: 13 @25746 has 22 MA's), (17, 25803), (19, 25842), (20, 25884), (23, 25902), (28, 25983), (29, 26004), (30, 26040), (31, 26049), (37, 26139), (38, 26142), (39, 26157), (40, 26163), (43, 26229), (60, 26748), (65, 26805), (66, 26820), (67, 26844), (68, 26868), (69, 26880),

Gene: Tandem_47 Start: 24396, Stop: 25579, Start Num: 11
Candidate Starts for Tandem_47:
(Start: 11 @24396 has 8 MA's), (Start: 13 @24405 has 22 MA's), (16, 24468), (20, 24558), (34, 24789), (35, 24810), (36, 24819), (38, 24828), (40, 24849), (41, 24867), (42, 24888), (44, 24927), (49, 25056), (50, 25110), (55, 25344), (60, 25434),

Gene: Uterion_53 Start: 24838, Stop: 26024, Start Num: 13
Candidate Starts for Uterion_53:
(1, 24427), (8, 24799), (Start: 11 @24829 has 8 MA's), (Start: 13 @24838 has 22 MA's), (16, 24904), (20, 24994), (22, 25018), (24, 25054), (32, 25192), (36, 25264), (38, 25273), (40, 25294), (41, 25312), (42, 25333), (44, 25372), (46, 25408), (50, 25555), (52, 25600), (57, 25813), (63, 25915), (64, 25927), (65, 25942),

Gene: WaterT_41 Start: 20865, Stop: 21892, Start Num: 14
Candidate Starts for WaterT_41:
(Start: 14 @20865 has 5 MA's), (17, 20907), (18, 20937), (26, 21063), (33, 21198), (38, 21225), (48, 21423), (51, 21522), (54, 21690), (56, 21729), (62, 21822),

Gene: Welcome_56 Start: 25766, Stop: 26913, Start Num: 13
Candidate Starts for Welcome_56:
(3, 25547), (5, 25610), (6, 25619), (7, 25673), (Start: 13 @25766 has 22 MA's), (17, 25823), (19, 25862), (20, 25904), (23, 25922), (28, 26003), (29, 26024), (30, 26060), (31, 26069), (37, 26159), (38, 26162), (39, 26177), (40, 26183), (43, 26249), (60, 26768), (65, 26825), (67, 26864), (68, 26888), (69,

26900),

Gene: Wolfstar_51 Start: 24646, Stop: 25832, Start Num: 13
Candidate Starts for Wolfstar_51:
(10, 24616), (Start: 11 @24637 has 8 MA's), (Start: 13 @24646 has 22 MA's), (15, 24667), (16, 24712), (25, 24865), (28, 24922), (36, 25072), (38, 25081), (40, 25102), (44, 25180), (45, 25210), (50, 25363), (52, 25408), (60, 25687), (65, 25750),

Gene: Yuma_54 Start: 25680, Stop: 26827, Start Num: 13
Candidate Starts for Yuma_54:
(Start: 13 @25680 has 22 MA's), (17, 25737), (19, 25776), (20, 25818), (23, 25836), (29, 25938), (30, 25974), (31, 25983), (37, 26073), (38, 26076), (39, 26091), (40, 26097), (43, 26163), (60, 26682), (65, 26739), (66, 26754), (67, 26778), (68, 26802), (69, 26814),