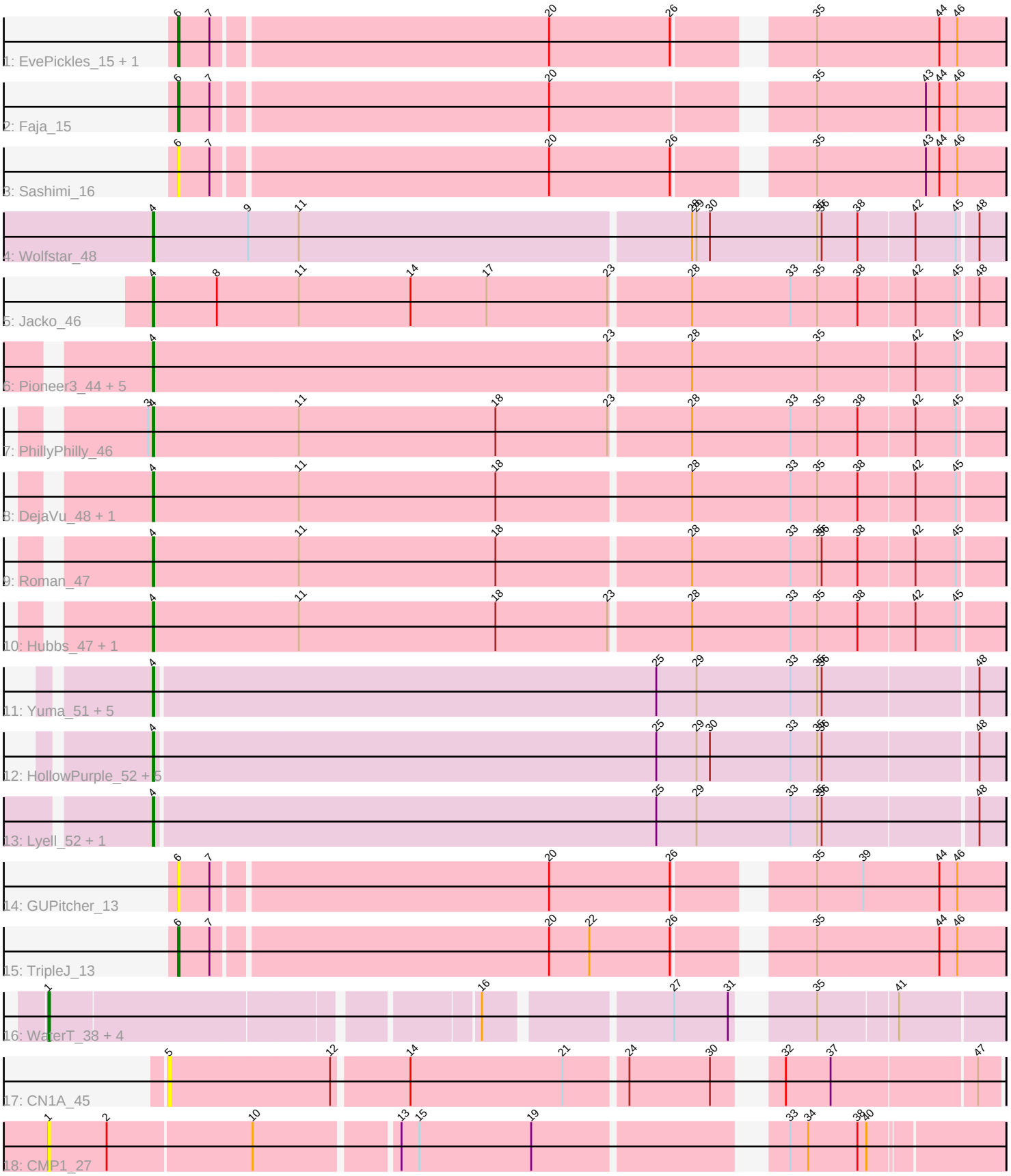
Pham 214218


1: EvePickles_15 + 1
2: Faja_15
3: Sashimi_16
4: Wolfstar_48
5: Jacko_46
6: Pioneer3_44 + 5
7: PhillyPhilly_46
8: DejaVu_48 + 1
9: Roman_47
10: Hubbs_47 + 1
11: Yuma_51 + 5
12: HollowPurple_52 + 5
13: Lyell_52 + 1
14: GUPitcher_13
15: TripleJ_13
16: WaterT_38 + 4
17: CN1A_45
18: CMP1_27

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 214218 Report

This analysis was run 02/22/25 on database version 588.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 214218 has 41 members, 7 are drafts.

Phages represented in each track:
• Track 1 : EvePickles_15, Kukla_13
• Track 2 : Faja_15
• Track 3 : Sashimi_16
• Track 4 : Wolfstar_48
• Track 5 : Jacko_46
• Track 6 : Pioneer3_44, Tandem_44, Platte_44, Alleb_45, OlinDD_44, Hortus1_44
• Track 7 : PhillyPhilly_46
• Track 8 : DejaVu_48, Lupine_45
• Track 9 : Roman_47
• Track 10 : Hubbs_47, Pavlo_46
• Track 11 : Yuma_51, Fork_48, Erenyeager_52, ASegato_51, StevieWelch_52, Casablancas_53
• Track 12 : HollowPurple_52, DustyDino_55, Musetta_52, RunningBrook_53, Issa7_51, Welcome_53
• Track 13 : Lyell_52, Necrophoxinus_54
• Track 14 : GUPitcher_13
• Track 15 : TripleJ_13
• Track 16 : WaterT_38, BarnCat_33, LeeroyJenkins_39, Lifes_35, Cassita_39
• Track 17 : CN1A_45
• Track 18 : CMP1_27

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 25 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASegato_51, Alleb_45, Casablancas_53, DejaVu_48, DustyDino_55, Erenyeager_52, Fork_48, HollowPurple_52, Hortus1_44, Hubbs_47, Issa7_51, Jacko_46, Lupine_45, Lyell_52, Musetta_52, Necrophoxinus_54, OlinDD_44,

Pavlo_46, PhillyPhilly_46, Pioneer3_44, Platte_44, Roman_47, RunningBrook_53, StevieWelch_52, Tandem_44, Welcome_53, Wolfstar_48, Yuma_51,

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

Genes that do not have the "Most Annotated" start:
• BarnCat_33, CMP1_27, CN1A_45, Cassita_39, EvePickles_15, Faja_15, GUPitcher_13, Kukla_13, LeeroyJenkins_39, Lifes_35, Sashimi_16, TripleJ_13, WaterT_38,

Summary by start number:

Start 1:
• Found in 6 of 41 (14.6%) of genes in pham
• Manual Annotations of this start: 5 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarnCat_33 (GB), CMP1_27 (singleton), Cassita_39 (GB), LeeroyJenkins_39 (GB), Lifes_35 (GB), WaterT_38 (GB),

Start 4:
• Found in 28 of 41 (68.3%) of genes in pham
• Manual Annotations of this start: 25 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_51 (ED2), Alleb_45 (ED1), Casablancas_53 (ED2), DejaVu_48 (ED1), DustyDino_55 (ED2), Erenyeager_52 (ED2), Fork_48 (ED2), HollowPurple_52 (ED2), Hortus1_44 (ED1), Hubbs_47 (ED1), Issa7_51 (ED2), Jacko_46 (ED1), Lupine_45 (ED1), Lyell_52 (ED2), Musetta_52 (ED2), Necrophoxinus_54 (ED2), OlinDD_44 (ED1), Pavlo_46 (ED1), PhillyPhilly_46 (ED1), Pioneer3_44 (ED1), Platte_44 (ED1), Roman_47 (ED1), RunningBrook_53 (ED2), StevieWelch_52 (ED2), Tandem_44 (ED1), Welcome_53 (ED2), Wolfstar_48 (ED), Yuma_51 (ED2),

Start 5:
• Found in 1 of 41 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CN1A_45 (singleton),

Start 6:
• Found in 6 of 41 (14.6%) of genes in pham
• Manual Annotations of this start: 4 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EvePickles_15 (AY), Faja_15 (AY), GUPitcher_13 (FJ), Kukla_13 (FJ), Sashimi_16 (AY), TripleJ_13 (FJ),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, ED, ED2, ED1, GB, AY, FJ,

Info for manual annotations of cluster AY:
•Start number 6 was manually annotated 2 times for cluster AY.

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

Info for manual annotations of cluster ED1:
•Start number 4 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 4 was manually annotated 11 times for cluster ED2.

Info for manual annotations of cluster FJ:
•Start number 6 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster GB:
•Start number 1 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: ASegato_51 Start: 23981, Stop: 24541, Start Num: 4
Candidate Starts for ASegato_51:
(Start: 4 @23981 has 25 MA's), (25, 24314), (29, 24341), (33, 24404), (35, 24422), (36, 24425), (48, 24524),

Gene: Alleb_45 Start: 23042, Stop: 23599, Start Num: 4
Candidate Starts for Alleb_45:
(Start: 4 @23042 has 25 MA's), (23, 23345), (28, 23396), (35, 23480), (42, 23543), (45, 23570),

Gene: BarnCat_33 Start: 17290, Stop: 17856, Start Num: 1
Candidate Starts for BarnCat_33:
(Start: 1 @17290 has 5 MA's), (16, 17551), (27, 17665), (31, 17701), (35, 17737), (41, 17788),

Gene: CMP1_27 Start: 22546, Stop: 23133, Start Num: 1
Candidate Starts for CMP1_27:
(Start: 1 @22546 has 5 MA's), (2, 22585), (10, 22678), (13, 22765), (15, 22777), (19, 22852), (33, 22996), (34, 23008), (38, 23041), (40, 23047),

Gene: CN1A_45 Start: 33391, Stop: 32879, Start Num: 5
Candidate Starts for CN1A_45:
(5, 33391), (12, 33286), (14, 33238), (21, 33136), (24, 33097), (30, 33043), (32, 33016), (37, 32986), (47, 32893),

Gene: Casablancas_53 Start: 24069, Stop: 24629, Start Num: 4
Candidate Starts for Casablancas_53:
(Start: 4 @24069 has 25 MA's), (25, 24402), (29, 24429), (33, 24492), (35, 24510), (36, 24513), (48, 24612),

Gene: Cassita_39 Start: 19666, Stop: 20232, Start Num: 1
Candidate Starts for Cassita_39:
(Start: 1 @19666 has 5 MA's), (16, 19927), (27, 20041), (31, 20077), (35, 20113), (41, 20164),

Gene: DejaVu_48 Start: 23251, Stop: 23808, Start Num: 4
Candidate Starts for DejaVu_48:

(Start: 4 @23251 has 25 MA's), (11, 23347), (18, 23479), (28, 23605), (33, 23671), (35, 23689), (38, 23716), (42, 23752), (45, 23779),

Gene: DustyDino_55 Start: 24925, Stop: 25485, Start Num: 4
Candidate Starts for DustyDino_55:
(Start: 4 @24925 has 25 MA's), (25, 25258), (29, 25285), (30, 25294), (33, 25348), (35, 25366), (36, 25369), (48, 25468),

Gene: Erenyeager_52 Start: 24319, Stop: 24879, Start Num: 4
Candidate Starts for Erenyeager_52:
(Start: 4 @24319 has 25 MA's), (25, 24652), (29, 24679), (33, 24742), (35, 24760), (36, 24763), (48, 24862),

Gene: EvePickles_15 Start: 9172, Stop: 9693, Start Num: 6
Candidate Starts for EvePickles_15:
(Start: 6 @9172 has 4 MA's), (7, 9193), (20, 9412), (26, 9493), (35, 9568), (44, 9649), (46, 9661),

Gene: Faja_15 Start: 9116, Stop: 9637, Start Num: 6
Candidate Starts for Faja_15:
(Start: 6 @9116 has 4 MA's), (7, 9137), (20, 9356), (35, 9512), (43, 9584), (44, 9593), (46, 9605),

Gene: Fork_48 Start: 23634, Stop: 24194, Start Num: 4
Candidate Starts for Fork_48:
(Start: 4 @23634 has 25 MA's), (25, 23967), (29, 23994), (33, 24057), (35, 24075), (36, 24078), (48, 24177),

Gene: GUPitcher_13 Start: 8607, Stop: 9128, Start Num: 6
Candidate Starts for GUPitcher_13:
(Start: 6 @8607 has 4 MA's), (7, 8628), (20, 8847), (26, 8928), (35, 9003), (39, 9033), (44, 9084), (46, 9096),

Gene: HollowPurple_52 Start: 24188, Stop: 24748, Start Num: 4
Candidate Starts for HollowPurple_52:
(Start: 4 @24188 has 25 MA's), (25, 24521), (29, 24548), (30, 24557), (33, 24611), (35, 24629), (36, 24632), (48, 24731),

Gene: Hortus1_44 Start: 23032, Stop: 23589, Start Num: 4
Candidate Starts for Hortus1_44:
(Start: 4 @23032 has 25 MA's), (23, 23335), (28, 23386), (35, 23470), (42, 23533), (45, 23560),

Gene: Hubbs_47 Start: 23463, Stop: 24020, Start Num: 4
Candidate Starts for Hubbs_47:
(Start: 4 @23463 has 25 MA's), (11, 23559), (18, 23691), (23, 23766), (28, 23817), (33, 23883), (35, 23901), (38, 23928), (42, 23964), (45, 23991),

Gene: Issa7_51 Start: 23636, Stop: 24196, Start Num: 4
Candidate Starts for Issa7_51:
(Start: 4 @23636 has 25 MA's), (25, 23969), (29, 23996), (30, 24005), (33, 24059), (35, 24077), (36, 24080), (48, 24179),

Gene: Jacko_46 Start: 21227, Stop: 21784, Start Num: 4
Candidate Starts for Jacko_46:

(Start: 4 @21227 has 25 MA's), (8, 21269), (11, 21323), (14, 21398), (17, 21449), (23, 21530), (28, 21581), (33, 21647), (35, 21665), (38, 21692), (42, 21728), (45, 21755), (48, 21767),

Gene: Kukla_13 Start: 8634, Stop: 9155, Start Num: 6
Candidate Starts for Kukla_13:
(Start: 6 @8634 has 4 MA's), (7, 8655), (20, 8874), (26, 8955), (35, 9030), (44, 9111), (46, 9123),

Gene: LeeroyJenkins_39 Start: 19597, Stop: 20163, Start Num: 1
Candidate Starts for LeeroyJenkins_39:
(Start: 1 @19597 has 5 MA's), (16, 19858), (27, 19972), (31, 20008), (35, 20044), (41, 20095),

Gene: Lifes_35 Start: 17321, Stop: 17887, Start Num: 1
Candidate Starts for Lifes_35:
(Start: 1 @17321 has 5 MA's), (16, 17582), (27, 17696), (31, 17732), (35, 17768), (41, 17819),

Gene: Lupine_45 Start: 22665, Stop: 23222, Start Num: 4
Candidate Starts for Lupine_45:
(Start: 4 @22665 has 25 MA's), (11, 22761), (18, 22893), (28, 23019), (33, 23085), (35, 23103), (38, 23130), (42, 23166), (45, 23193),

Gene: Lyell_52 Start: 24238, Stop: 24798, Start Num: 4
Candidate Starts for Lyell_52:
(Start: 4 @24238 has 25 MA's), (25, 24571), (29, 24598), (33, 24661), (35, 24679), (36, 24682), (48, 24781),

Gene: Musetta_52 Start: 24352, Stop: 24912, Start Num: 4
Candidate Starts for Musetta_52:
(Start: 4 @24352 has 25 MA's), (25, 24685), (29, 24712), (30, 24721), (33, 24775), (35, 24793), (36, 24796), (48, 24895),

Gene: Necrophoxinus_54 Start: 24933, Stop: 25493, Start Num: 4
Candidate Starts for Necrophoxinus_54:
(Start: 4 @24933 has 25 MA's), (25, 25266), (29, 25293), (33, 25356), (35, 25374), (36, 25377), (48, 25476),

Gene: OlinDD_44 Start: 23031, Stop: 23588, Start Num: 4
Candidate Starts for OlinDD_44:
(Start: 4 @23031 has 25 MA's), (23, 23334), (28, 23385), (35, 23469), (42, 23532), (45, 23559),

Gene: Pavlo_46 Start: 23310, Stop: 23867, Start Num: 4
Candidate Starts for Pavlo_46:
(Start: 4 @23310 has 25 MA's), (11, 23406), (18, 23538), (23, 23613), (28, 23664), (33, 23730), (35, 23748), (38, 23775), (42, 23811), (45, 23838),

Gene: PhillyPhilly_46 Start: 22844, Stop: 23401, Start Num: 4
Candidate Starts for PhillyPhilly_46:
(3, 22841), (Start: 4 @22844 has 25 MA's), (11, 22940), (18, 23072), (23, 23147), (28, 23198), (33, 23264), (35, 23282), (38, 23309), (42, 23345), (45, 23372),

Gene: Pioneer3_44 Start: 23039, Stop: 23596, Start Num: 4
Candidate Starts for Pioneer3_44:
(Start: 4 @23039 has 25 MA's), (23, 23342), (28, 23393), (35, 23477), (42, 23540), (45, 23567),

Gene: Platte_44 Start: 22824, Stop: 23381, Start Num: 4
Candidate Starts for Platte_44:
(Start: 4 @22824 has 25 MA's), (23, 23127), (28, 23178), (35, 23262), (42, 23325), (45, 23352),

Gene: Roman_47 Start: 23311, Stop: 23868, Start Num: 4
Candidate Starts for Roman_47:
(Start: 4 @23311 has 25 MA's), (11, 23407), (18, 23539), (28, 23665), (33, 23731), (35, 23749), (36, 23752), (38, 23776), (42, 23812), (45, 23839),

Gene: RunningBrook_53 Start: 24925, Stop: 25485, Start Num: 4
Candidate Starts for RunningBrook_53:
(Start: 4 @24925 has 25 MA's), (25, 25258), (29, 25285), (30, 25294), (33, 25348), (35, 25366), (36, 25369), (48, 25468),

Gene: Sashimi_16 Start: 9234, Stop: 9755, Start Num: 6
Candidate Starts for Sashimi_16:
(Start: 6 @9234 has 4 MA's), (7, 9255), (20, 9474), (26, 9555), (35, 9630), (43, 9702), (44, 9711), (46, 9723),

Gene: StevieWelch_52 Start: 24320, Stop: 24880, Start Num: 4
Candidate Starts for StevieWelch_52:
(Start: 4 @24320 has 25 MA's), (25, 24653), (29, 24680), (33, 24743), (35, 24761), (36, 24764), (48, 24863),

Gene: Tandem_44 Start: 22978, Stop: 23535, Start Num: 4
Candidate Starts for Tandem_44:
(Start: 4 @22978 has 25 MA's), (23, 23281), (28, 23332), (35, 23416), (42, 23479), (45, 23506),

Gene: TripleJ_13 Start: 8929, Stop: 9450, Start Num: 6
Candidate Starts for TripleJ_13:
(Start: 6 @8929 has 4 MA's), (7, 8950), (20, 9169), (22, 9196), (26, 9250), (35, 9325), (44, 9406), (46, 9418),

Gene: WaterT_38 Start: 19410, Stop: 19976, Start Num: 1
Candidate Starts for WaterT_38:
(Start: 1 @19410 has 5 MA's), (16, 19671), (27, 19785), (31, 19821), (35, 19857), (41, 19908),

Gene: Welcome_53 Start: 24337, Stop: 24897, Start Num: 4
Candidate Starts for Welcome_53:
(Start: 4 @24337 has 25 MA's), (25, 24670), (29, 24697), (30, 24706), (33, 24760), (35, 24778), (36, 24781), (48, 24880),

Gene: Wolfstar_48 Start: 23218, Stop: 23775, Start Num: 4
Candidate Starts for Wolfstar_48:
(Start: 4 @23218 has 25 MA's), (9, 23281), (11, 23314), (28, 23572), (29, 23575), (30, 23584), (35, 23656), (36, 23659), (38, 23683), (42, 23719), (45, 23746), (48, 23758),

Gene: Yuma_51 Start: 24252, Stop: 24812, Start Num: 4
Candidate Starts for Yuma_51:
(Start: 4 @24252 has 25 MA's), (25, 24585), (29, 24612), (33, 24675), (35, 24693), (36, 24696), (48, 24795),