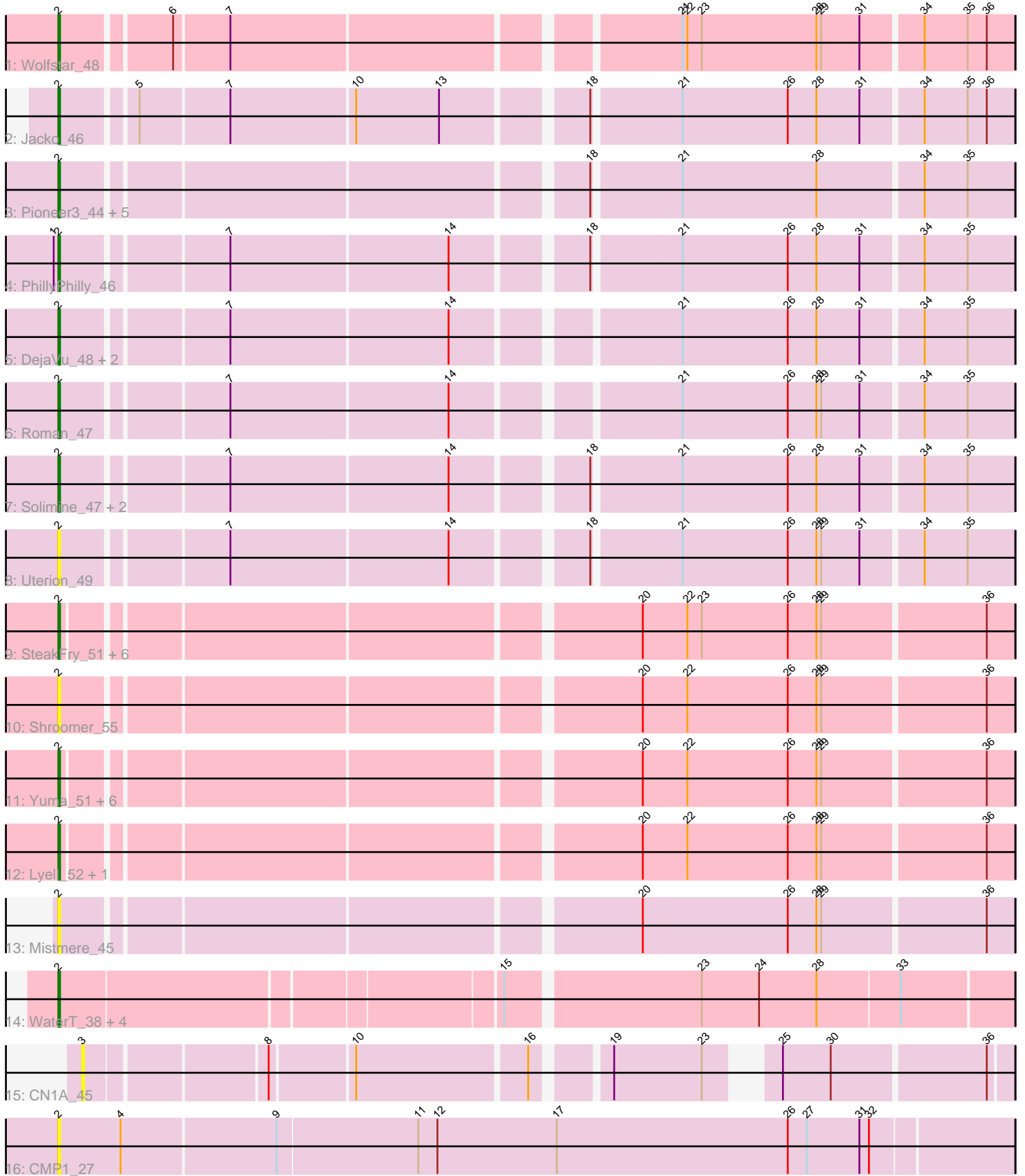


Pham 294864



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 294864 Report

This analysis was run 04/18/26 on database version 643.

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 294864 has 42 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_48
- Track 2 : Jacko_46
- Track 3 : Pioneer3_44, Tandem_44, Platte_44, Alleb_45, Hortus1_44, OlinDD_44
- Track 4 : PhillyPhilly_46
- Track 5 : DejaVu_48, Lupine_45, Saradis_47
- Track 6 : Roman_47
- Track 7 : Solimine_47, Hubbs_47, Pavlo_46
- Track 8 : Uterion_49
- Track 9 : SteakFry_51, DustyDino_55, Welcome_53, RunningBrook_53, Issa7_51, Musetta_52, HollowPurple_53
- Track 10 : Shroomer_55
- Track 11 : Yuma_51, Fork_48, Casablanacas_53, Erenyeager_52, ASegato_51, StevieWelch_52, Deschain_53
- Track 12 : Lyell_52, Necrophoxinus_54
- Track 13 : Mistmere_45
- Track 14 : WaterT_38, BarnCat_33, Lifes_35, LeeroyJenkins_39, Cassita_39
- Track 15 : CN1A_45
- Track 16 : 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 2, it was called in 31 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_51, Alleb_45, BarnCat_33, CMP1_27, Casablanacas_53, Cassita_39, DejaVu_48, Deschain_53, DustyDino_55, Erenyeager_52, Fork_48, HollowPurple_53, Hortus1_44, Hubbs_47, Issa7_51, Jacko_46, LeeroyJenkins_39, Lifes_35, Lupine_45, Lyell_52, Mistmere_45, Musetta_52, Necrophoxinus_54, OlinDD_44, Pavlo_46, PhillyPhilly_46, Pioneer3_44, Platte_44, Roman_47,

RunningBrook_53, Saradis_47, Shroomer_55, Solimine_47, SteakFry_51, StevieWelch_52, Tandem_44, Uterion_49, WaterT_38, 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:

- CN1A_45,

Summary by start number:

Start 2:

- Found in 41 of 42 (97.6%) of genes in pham
- Manual Annotations of this start: 31 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato_51 (ED2), Alleb_45 (ED1), BarnCat_33 (GB), CMP1_27 (singleton), Casablanacas_53 (ED2), Cassita_39 (GB), DejaVu_48 (ED1), Deschain_53 (ED2), DustyDino_55 (ED2), Erenyeager_52 (ED2), Fork_48 (ED2), HollowPurple_53 (ED2), Hortus1_44 (ED1), Hubbs_47 (ED1), Issa7_51 (ED2), Jacko_46 (ED1), LeeroyJenkins_39 (GB), Lifes_35 (GB), Lupine_45 (ED1), Lyell_52 (ED2), Mistmere_45 (ED3), 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), Saradis_47 (ED1), Shroomer_55 (ED2), Solimine_47 (ED1), SteakFry_51 (ED2), StevieWelch_52 (ED2), Tandem_44 (ED1), Uterion_49 (ED1), WaterT_38 (GB), Welcome_53 (ED2), Wolfstar_48 (ED), Yuma_51 (ED2),

Start 3:

- Found in 1 of 42 (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),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, ED, ED2, ED3, ED1, GB,

Info for manual annotations of cluster ED:

- Start number 2 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 2 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 2 was manually annotated 12 times for cluster ED2.

Info for manual annotations of cluster GB:

- Start number 2 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: ASegato_51 Start: 23981, Stop: 24541, Start Num: 2

Candidate Starts for ASegato_51:

(Start: 2 @23981 has 31 MA's), (20, 24314), (22, 24341), (26, 24404), (28, 24422), (29, 24425), (36, 24524),

Gene: Alleb_45 Start: 23042, Stop: 23599, Start Num: 2

Candidate Starts for Alleb_45:

(Start: 2 @23042 has 31 MA's), (18, 23345), (21, 23396), (28, 23480), (34, 23543), (35, 23570),

Gene: BarnCat_33 Start: 17290, Stop: 17856, Start Num: 2

Candidate Starts for BarnCat_33:

(Start: 2 @17290 has 31 MA's), (15, 17551), (23, 17665), (24, 17701), (28, 17737), (33, 17788),

Gene: CMP1_27 Start: 22546, Stop: 23133, Start Num: 2

Candidate Starts for CMP1_27:

(Start: 2 @22546 has 31 MA's), (4, 22585), (9, 22678), (11, 22765), (12, 22777), (17, 22852), (26, 22996), (27, 23008), (31, 23041), (32, 23047),

Gene: CN1A_45 Start: 33391, Stop: 32879, Start Num: 3

Candidate Starts for CN1A_45:

(3, 33391), (8, 33286), (10, 33238), (16, 33136), (19, 33097), (23, 33043), (25, 33016), (30, 32986), (36, 32893),

Gene: Casablancas_53 Start: 24069, Stop: 24629, Start Num: 2

Candidate Starts for Casablancas_53:

(Start: 2 @24069 has 31 MA's), (20, 24402), (22, 24429), (26, 24492), (28, 24510), (29, 24513), (36, 24612),

Gene: Cassita_39 Start: 19666, Stop: 20232, Start Num: 2

Candidate Starts for Cassita_39:

(Start: 2 @19666 has 31 MA's), (15, 19927), (23, 20041), (24, 20077), (28, 20113), (33, 20164),

Gene: DejaVu_48 Start: 23251, Stop: 23808, Start Num: 2

Candidate Starts for DejaVu_48:

(Start: 2 @23251 has 31 MA's), (7, 23347), (14, 23479), (21, 23605), (26, 23671), (28, 23689), (31, 23716), (34, 23752), (35, 23779),

Gene: Deschain_53 Start: 24733, Stop: 25293, Start Num: 2

Candidate Starts for Deschain_53:

(Start: 2 @24733 has 31 MA's), (20, 25066), (22, 25093), (26, 25156), (28, 25174), (29, 25177), (36, 25276),

Gene: DustyDino_55 Start: 24925, Stop: 25485, Start Num: 2

Candidate Starts for DustyDino_55:

(Start: 2 @24925 has 31 MA's), (20, 25258), (22, 25285), (23, 25294), (26, 25348), (28, 25366), (29, 25369), (36, 25468),

Gene: Erenyeager_52 Start: 24319, Stop: 24879, Start Num: 2

Candidate Starts for Erenyeager_52:

(Start: 2 @24319 has 31 MA's), (20, 24652), (22, 24679), (26, 24742), (28, 24760), (29, 24763), (36, 24862),

Gene: Fork_48 Start: 23634, Stop: 24194, Start Num: 2
Candidate Starts for Fork_48:
(Start: 2 @23634 has 31 MA's), (20, 23967), (22, 23994), (26, 24057), (28, 24075), (29, 24078), (36, 24177),

Gene: HollowPurple_53 Start: 24188, Stop: 24748, Start Num: 2
Candidate Starts for HollowPurple_53:
(Start: 2 @24188 has 31 MA's), (20, 24521), (22, 24548), (23, 24557), (26, 24611), (28, 24629), (29, 24632), (36, 24731),

Gene: Hortus1_44 Start: 23032, Stop: 23589, Start Num: 2
Candidate Starts for Hortus1_44:
(Start: 2 @23032 has 31 MA's), (18, 23335), (21, 23386), (28, 23470), (34, 23533), (35, 23560),

Gene: Hubbs_47 Start: 23463, Stop: 24020, Start Num: 2
Candidate Starts for Hubbs_47:
(Start: 2 @23463 has 31 MA's), (7, 23559), (14, 23691), (18, 23766), (21, 23817), (26, 23883), (28, 23901), (31, 23928), (34, 23964), (35, 23991),

Gene: Issa7_51 Start: 23636, Stop: 24196, Start Num: 2
Candidate Starts for Issa7_51:
(Start: 2 @23636 has 31 MA's), (20, 23969), (22, 23996), (23, 24005), (26, 24059), (28, 24077), (29, 24080), (36, 24179),

Gene: Jacko_46 Start: 21227, Stop: 21784, Start Num: 2
Candidate Starts for Jacko_46:
(Start: 2 @21227 has 31 MA's), (5, 21269), (7, 21323), (10, 21398), (13, 21449), (18, 21530), (21, 21581), (26, 21647), (28, 21665), (31, 21692), (34, 21728), (35, 21755), (36, 21767),

Gene: LeeroyJenkins_39 Start: 19597, Stop: 20163, Start Num: 2
Candidate Starts for LeeroyJenkins_39:
(Start: 2 @19597 has 31 MA's), (15, 19858), (23, 19972), (24, 20008), (28, 20044), (33, 20095),

Gene: Lifes_35 Start: 17321, Stop: 17887, Start Num: 2
Candidate Starts for Lifes_35:
(Start: 2 @17321 has 31 MA's), (15, 17582), (23, 17696), (24, 17732), (28, 17768), (33, 17819),

Gene: Lupine_45 Start: 22665, Stop: 23222, Start Num: 2
Candidate Starts for Lupine_45:
(Start: 2 @22665 has 31 MA's), (7, 22761), (14, 22893), (21, 23019), (26, 23085), (28, 23103), (31, 23130), (34, 23166), (35, 23193),

Gene: Lyell_52 Start: 24238, Stop: 24798, Start Num: 2
Candidate Starts for Lyell_52:
(Start: 2 @24238 has 31 MA's), (20, 24571), (22, 24598), (26, 24661), (28, 24679), (29, 24682), (36, 24781),

Gene: Mistmere_45 Start: 22106, Stop: 22669, Start Num: 2
Candidate Starts for Mistmere_45:
(Start: 2 @22106 has 31 MA's), (20, 22442), (26, 22532), (28, 22550), (29, 22553), (36, 22652),

Gene: Musetta_52 Start: 24352, Stop: 24912, Start Num: 2

Candidate Starts for Musetta_52:

(Start: 2 @24352 has 31 MA's), (20, 24685), (22, 24712), (23, 24721), (26, 24775), (28, 24793), (29, 24796), (36, 24895),

Gene: Necrophoxinus_54 Start: 24933, Stop: 25493, Start Num: 2

Candidate Starts for Necrophoxinus_54:

(Start: 2 @24933 has 31 MA's), (20, 25266), (22, 25293), (26, 25356), (28, 25374), (29, 25377), (36, 25476),

Gene: OlinDD_44 Start: 23031, Stop: 23588, Start Num: 2

Candidate Starts for OlinDD_44:

(Start: 2 @23031 has 31 MA's), (18, 23334), (21, 23385), (28, 23469), (34, 23532), (35, 23559),

Gene: Pavlo_46 Start: 23310, Stop: 23867, Start Num: 2

Candidate Starts for Pavlo_46:

(Start: 2 @23310 has 31 MA's), (7, 23406), (14, 23538), (18, 23613), (21, 23664), (26, 23730), (28, 23748), (31, 23775), (34, 23811), (35, 23838),

Gene: PhillyPhilly_46 Start: 22844, Stop: 23401, Start Num: 2

Candidate Starts for PhillyPhilly_46:

(1, 22841), (Start: 2 @22844 has 31 MA's), (7, 22940), (14, 23072), (18, 23147), (21, 23198), (26, 23264), (28, 23282), (31, 23309), (34, 23345), (35, 23372),

Gene: Pioneer3_44 Start: 23039, Stop: 23596, Start Num: 2

Candidate Starts for Pioneer3_44:

(Start: 2 @23039 has 31 MA's), (18, 23342), (21, 23393), (28, 23477), (34, 23540), (35, 23567),

Gene: Platte_44 Start: 22824, Stop: 23381, Start Num: 2

Candidate Starts for Platte_44:

(Start: 2 @22824 has 31 MA's), (18, 23127), (21, 23178), (28, 23262), (34, 23325), (35, 23352),

Gene: Roman_47 Start: 23311, Stop: 23868, Start Num: 2

Candidate Starts for Roman_47:

(Start: 2 @23311 has 31 MA's), (7, 23407), (14, 23539), (21, 23665), (26, 23731), (28, 23749), (29, 23752), (31, 23776), (34, 23812), (35, 23839),

Gene: RunningBrook_53 Start: 24925, Stop: 25485, Start Num: 2

Candidate Starts for RunningBrook_53:

(Start: 2 @24925 has 31 MA's), (20, 25258), (22, 25285), (23, 25294), (26, 25348), (28, 25366), (29, 25369), (36, 25468),

Gene: Saradis_47 Start: 22903, Stop: 23460, Start Num: 2

Candidate Starts for Saradis_47:

(Start: 2 @22903 has 31 MA's), (7, 22999), (14, 23131), (21, 23257), (26, 23323), (28, 23341), (31, 23368), (34, 23404), (35, 23431),

Gene: Shroomer_55 Start: 24465, Stop: 25028, Start Num: 2

Candidate Starts for Shroomer_55:

(Start: 2 @24465 has 31 MA's), (20, 24801), (22, 24828), (26, 24891), (28, 24909), (29, 24912), (36, 25011),

Gene: Solimine_47 Start: 23317, Stop: 23874, Start Num: 2

Candidate Starts for Solimine_47:

(Start: 2 @23317 has 31 MA's), (7, 23413), (14, 23545), (18, 23620), (21, 23671), (26, 23737), (28, 23755), (31, 23782), (34, 23818), (35, 23845),

Gene: SteakFry_51 Start: 24188, Stop: 24748, Start Num: 2

Candidate Starts for SteakFry_51:

(Start: 2 @24188 has 31 MA's), (20, 24521), (22, 24548), (23, 24557), (26, 24611), (28, 24629), (29, 24632), (36, 24731),

Gene: StevieWelch_52 Start: 24320, Stop: 24880, Start Num: 2

Candidate Starts for StevieWelch_52:

(Start: 2 @24320 has 31 MA's), (20, 24653), (22, 24680), (26, 24743), (28, 24761), (29, 24764), (36, 24863),

Gene: Tandem_44 Start: 22978, Stop: 23535, Start Num: 2

Candidate Starts for Tandem_44:

(Start: 2 @22978 has 31 MA's), (18, 23281), (21, 23332), (28, 23416), (34, 23479), (35, 23506),

Gene: Uterion_49 Start: 23412, Stop: 23969, Start Num: 2

Candidate Starts for Uterion_49:

(Start: 2 @23412 has 31 MA's), (7, 23508), (14, 23640), (18, 23715), (21, 23766), (26, 23832), (28, 23850), (29, 23853), (31, 23877), (34, 23913), (35, 23940),

Gene: WaterT_38 Start: 19410, Stop: 19976, Start Num: 2

Candidate Starts for WaterT_38:

(Start: 2 @19410 has 31 MA's), (15, 19671), (23, 19785), (24, 19821), (28, 19857), (33, 19908),

Gene: Welcome_53 Start: 24337, Stop: 24897, Start Num: 2

Candidate Starts for Welcome_53:

(Start: 2 @24337 has 31 MA's), (20, 24670), (22, 24697), (23, 24706), (26, 24760), (28, 24778), (29, 24781), (36, 24880),

Gene: Wolfstar_48 Start: 23218, Stop: 23775, Start Num: 2

Candidate Starts for Wolfstar_48:

(Start: 2 @23218 has 31 MA's), (6, 23281), (7, 23314), (21, 23572), (22, 23575), (23, 23584), (28, 23656), (29, 23659), (31, 23683), (34, 23719), (35, 23746), (36, 23758),

Gene: Yuma_51 Start: 24252, Stop: 24812, Start Num: 2

Candidate Starts for Yuma_51:

(Start: 2 @24252 has 31 MA's), (20, 24585), (22, 24612), (26, 24675), (28, 24693), (29, 24696), (36, 24795),