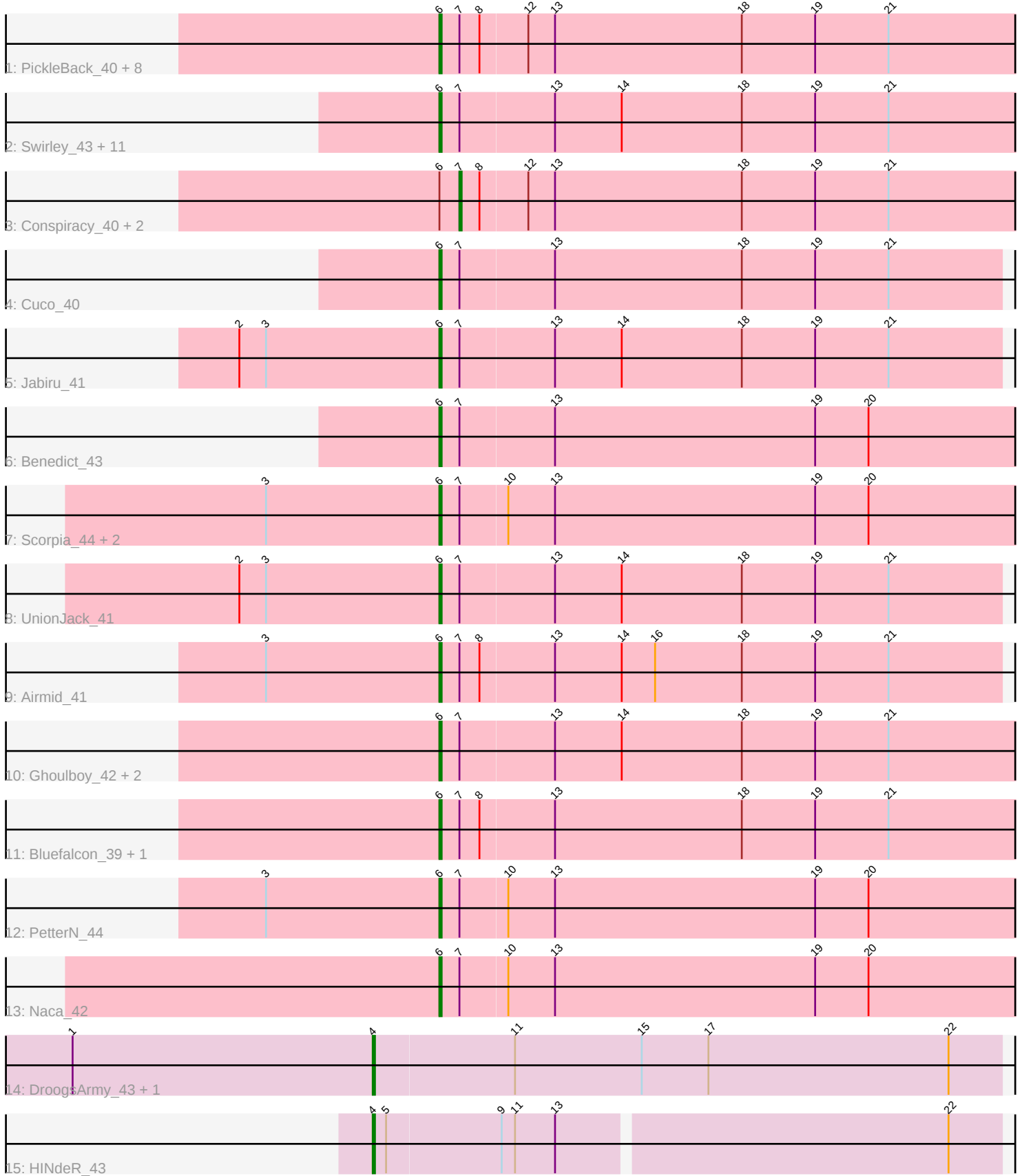


Pham 280599



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 280599 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280599 has 42 members, 3 are drafts.

Phages represented in each track:

- Track 1 : PickleBack_40, Jovo_40, Lev2_40, Discoknowium_39, ForGetIt_40, Archetta_40, Aragog_39, AgentM_39, Phlorence_39
- Track 2 : Swirley_43, Bonamassa_41, Prinashe11_41, George_40, Micasa_42, Dublin_39, Milcery_41, Florence1_39, Tarynearal_39, LittleCherry_41, HuhtaEnerson15_41, Florence4_40
- Track 3 : Conspiracy_40, Theia_38, Tiger_39
- Track 4 : Cuco_40
- Track 5 : Jabiru_41
- Track 6 : Benedict_43
- Track 7 : Scorpia_44, ElTiger69_42, Chadwick_44
- Track 8 : UnionJack_41
- Track 9 : Airmid_41
- Track 10 : Ghouboy_42, SydNat_42, Zolita_41
- Track 11 : Bluefalcon_39, MarysWell_39
- Track 12 : PetterN_44
- Track 13 : Naca_42
- Track 14 : DroogsArmy_43, Timshel_45
- Track 15 : HINdeR_43

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

The start number called the most often in the published annotations is 6, it was called in 33 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_39, Airmid_41, Aragog_39, Archetta_40, Benedict_43, Bluefalcon_39, Bonamassa_41, Chadwick_44, Cuco_40, Discoknowium_39, Dublin_39, ElTiger69_42, Florence1_39, Florence4_40, ForGetIt_40, George_40, Ghouboy_42, HuhtaEnerson15_41, Jabiru_41, Jovo_40, Lev2_40, LittleCherry_41, MarysWell_39, Micasa_42, Milcery_41, Naca_42, PetterN_44, Phlorence_39, PickleBack_40, Prinashe11_41, Scorpia_44, Swirley_43, SydNat_42, Tarynearal_39, UnionJack_41, Zolita_41,

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

- Conspiracy_40, Theia_38, Tiger_39,

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

- DroogsArmy_43, HINdeR_43, Timshel_45,

Summary by start number:

Start 4:

- Found in 3 of 42 (7.1%) of genes in pham
- Manual Annotations of this start: 3 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_43 (A7), HINdeR_43 (A7), Timshel_45 (A7),

Start 6:

- Found in 39 of 42 (92.9%) of genes in pham
- Manual Annotations of this start: 33 of 39
- Called 92.3% of time when present
- Phage (with cluster) where this start called: AgentM_39 (A5), Airmid_41 (A5), Aragog_39 (A5), Archetta_40 (A5), Benedict_43 (A5), Bluefalcon_39 (A5), Bonamassa_41 (A5), Chadwick_44 (A5), Cuco_40 (A5), Discoknowium_39 (A5), Dublin_39 (A5), ElTiger69_42 (A5), Florence1_39 (A5), Florence4_40 (A5), ForGetIt_40 (A5), George_40 (A5), Ghouboy_42 (A5), HuhtaEnerson15_41 (A5), Jabiru_41 (A5), Jovo_40 (A5), Lev2_40 (A5), LittleCherry_41 (A5), MarysWell_39 (A5), Micasa_42 (A5), Milcery_41 (A5), Naca_42 (A5), PetterN_44 (A5), Phlorence_39 (A5), PickleBack_40 (A5), Prinashel11_41 (A5), Scorpia_44 (A5), Swirley_43 (A5), SydNat_42 (A5), Taryneal_39 (A5), UnionJack_41 (A5), Zolita_41 (A5),

Start 7:

- Found in 39 of 42 (92.9%) of genes in pham
- Manual Annotations of this start: 3 of 39
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Conspiracy_40 (A5), Theia_38 (A5), Tiger_39 (A5),

Summary by clusters:

There are 2 clusters represented in this pham: A5, A7,

Info for manual annotations of cluster A5:

- Start number 6 was manually annotated 33 times for cluster A5.
- Start number 7 was manually annotated 3 times for cluster A5.

Info for manual annotations of cluster A7:

- Start number 4 was manually annotated 3 times for cluster A7.

Gene Information:

Gene: AgentM_39 Start: 30764, Stop: 30501, Start Num: 6

Candidate Starts for AgentM_39:

(Start: 6 @30764 has 33 MA's), (Start: 7 @30755 has 3 MA's), (8, 30746), (12, 30725), (13, 30713), (18, 30629), (19, 30596), (21, 30563),

Gene: Airmid_41 Start: 30823, Stop: 30572, Start Num: 6

Candidate Starts for Airmid_41:

(3, 30901), (Start: 6 @30823 has 33 MA's), (Start: 7 @30814 has 3 MA's), (8, 30805), (13, 30772), (14, 30742), (16, 30727), (18, 30688), (19, 30655), (21, 30622),

Gene: Aragog_39 Start: 30794, Stop: 30531, Start Num: 6

Candidate Starts for Aragog_39:

(Start: 6 @30794 has 33 MA's), (Start: 7 @30785 has 3 MA's), (8, 30776), (12, 30755), (13, 30743), (18, 30659), (19, 30626), (21, 30593),

Gene: Archetta_40 Start: 31324, Stop: 31061, Start Num: 6

Candidate Starts for Archetta_40:

(Start: 6 @31324 has 33 MA's), (Start: 7 @31315 has 3 MA's), (8, 31306), (12, 31285), (13, 31273), (18, 31189), (19, 31156), (21, 31123),

Gene: Benedict_43 Start: 30995, Stop: 30732, Start Num: 6

Candidate Starts for Benedict_43:

(Start: 6 @30995 has 33 MA's), (Start: 7 @30986 has 3 MA's), (13, 30944), (19, 30827), (20, 30803),

Gene: Bluefalcon_39 Start: 31282, Stop: 31019, Start Num: 6

Candidate Starts for Bluefalcon_39:

(Start: 6 @31282 has 33 MA's), (Start: 7 @31273 has 3 MA's), (8, 31264), (13, 31231), (18, 31147), (19, 31114), (21, 31081),

Gene: Bonamassa_41 Start: 31313, Stop: 31050, Start Num: 6

Candidate Starts for Bonamassa_41:

(Start: 6 @31313 has 33 MA's), (Start: 7 @31304 has 3 MA's), (13, 31262), (14, 31232), (18, 31178), (19, 31145), (21, 31112),

Gene: Chadwick_44 Start: 30975, Stop: 30712, Start Num: 6

Candidate Starts for Chadwick_44:

(3, 31053), (Start: 6 @30975 has 33 MA's), (Start: 7 @30966 has 3 MA's), (10, 30945), (13, 30924), (19, 30807), (20, 30783),

Gene: Conspiracy_40 Start: 30997, Stop: 30743, Start Num: 7

Candidate Starts for Conspiracy_40:

(Start: 6 @31006 has 33 MA's), (Start: 7 @30997 has 3 MA's), (8, 30988), (12, 30967), (13, 30955), (18, 30871), (19, 30838), (21, 30805),

Gene: Cuco_40 Start: 31061, Stop: 30810, Start Num: 6

Candidate Starts for Cuco_40:

(Start: 6 @31061 has 33 MA's), (Start: 7 @31052 has 3 MA's), (13, 31010), (18, 30926), (19, 30893), (21, 30860),

Gene: Discoknowium_39 Start: 30803, Stop: 30540, Start Num: 6

Candidate Starts for Discoknowium_39:

(Start: 6 @30803 has 33 MA's), (Start: 7 @30794 has 3 MA's), (8, 30785), (12, 30764), (13, 30752), (18, 30668), (19, 30635), (21, 30602),

Gene: DroogsArmy_43 Start: 33565, Stop: 33284, Start Num: 4

Candidate Starts for DroogsArmy_43:

(1, 33700), (Start: 4 @33565 has 3 MA's), (11, 33502), (15, 33445), (17, 33415), (22, 33307),

Gene: Dublin_39 Start: 30825, Stop: 30562, Start Num: 6

Candidate Starts for Dublin_39:

(Start: 6 @30825 has 3 MA's), (Start: 7 @30816 has 3 MA's), (13, 30774), (14, 30744), (18, 30690), (19, 30657), (21, 30624),

Gene: ElTiger69_42 Start: 30992, Stop: 30729, Start Num: 6

Candidate Starts for ElTiger69_42:

(3, 31070), (Start: 6 @30992 has 3 MA's), (Start: 7 @30983 has 3 MA's), (10, 30962), (13, 30941), (19, 30824), (20, 30800),

Gene: Florence1_39 Start: 30678, Stop: 30415, Start Num: 6

Candidate Starts for Florence1_39:

(Start: 6 @30678 has 3 MA's), (Start: 7 @30669 has 3 MA's), (13, 30627), (14, 30597), (18, 30543), (19, 30510), (21, 30477),

Gene: Florence4_40 Start: 30678, Stop: 30415, Start Num: 6

Candidate Starts for Florence4_40:

(Start: 6 @30678 has 3 MA's), (Start: 7 @30669 has 3 MA's), (13, 30627), (14, 30597), (18, 30543), (19, 30510), (21, 30477),

Gene: ForGetIt_40 Start: 31031, Stop: 30768, Start Num: 6

Candidate Starts for ForGetIt_40:

(Start: 6 @31031 has 3 MA's), (Start: 7 @31022 has 3 MA's), (8, 31013), (12, 30992), (13, 30980), (18, 30896), (19, 30863), (21, 30830),

Gene: George_40 Start: 31255, Stop: 30992, Start Num: 6

Candidate Starts for George_40:

(Start: 6 @31255 has 3 MA's), (Start: 7 @31246 has 3 MA's), (13, 31204), (14, 31174), (18, 31120), (19, 31087), (21, 31054),

Gene: Ghoulboy_42 Start: 31768, Stop: 31505, Start Num: 6

Candidate Starts for Ghoulboy_42:

(Start: 6 @31768 has 3 MA's), (Start: 7 @31759 has 3 MA's), (13, 31717), (14, 31687), (18, 31633), (19, 31600), (21, 31567),

Gene: HINdeR_43 Start: 33388, Stop: 33113, Start Num: 4

Candidate Starts for HINdeR_43:

(Start: 4 @33388 has 3 MA's), (5, 33382), (9, 33331), (11, 33325), (13, 33307), (22, 33136),

Gene: HuhtaEnerson15_41 Start: 31246, Stop: 30983, Start Num: 6

Candidate Starts for HuhtaEnerson15_41:

(Start: 6 @31246 has 3 MA's), (Start: 7 @31237 has 3 MA's), (13, 31195), (14, 31165), (18, 31111), (19, 31078), (21, 31045),

Gene: Jabiru_41 Start: 30865, Stop: 30614, Start Num: 6

Candidate Starts for Jabiru_41:

(2, 30955), (3, 30943), (Start: 6 @30865 has 3 MA's), (Start: 7 @30856 has 3 MA's), (13, 30814), (14, 30784), (18, 30730), (19, 30697), (21, 30664),

Gene: Jovo_40 Start: 31287, Stop: 31024, Start Num: 6

Candidate Starts for Jovo_40:

(Start: 6 @31287 has 33 MA's), (Start: 7 @31278 has 3 MA's), (8, 31269), (12, 31248), (13, 31236), (18, 31152), (19, 31119), (21, 31086),

Gene: Lev2_40 Start: 30919, Stop: 30656, Start Num: 6

Candidate Starts for Lev2_40:

(Start: 6 @30919 has 33 MA's), (Start: 7 @30910 has 3 MA's), (8, 30901), (12, 30880), (13, 30868), (18, 30784), (19, 30751), (21, 30718),

Gene: LittleCherry_41 Start: 31256, Stop: 30993, Start Num: 6

Candidate Starts for LittleCherry_41:

(Start: 6 @31256 has 33 MA's), (Start: 7 @31247 has 3 MA's), (13, 31205), (14, 31175), (18, 31121), (19, 31088), (21, 31055),

Gene: MarysWell_39 Start: 31119, Stop: 30856, Start Num: 6

Candidate Starts for MarysWell_39:

(Start: 6 @31119 has 33 MA's), (Start: 7 @31110 has 3 MA's), (8, 31101), (13, 31068), (18, 30984), (19, 30951), (21, 30918),

Gene: Micasa_42 Start: 31386, Stop: 31123, Start Num: 6

Candidate Starts for Micasa_42:

(Start: 6 @31386 has 33 MA's), (Start: 7 @31377 has 3 MA's), (13, 31335), (14, 31305), (18, 31251), (19, 31218), (21, 31185),

Gene: Milcery_41 Start: 31223, Stop: 30960, Start Num: 6

Candidate Starts for Milcery_41:

(Start: 6 @31223 has 33 MA's), (Start: 7 @31214 has 3 MA's), (13, 31172), (14, 31142), (18, 31088), (19, 31055), (21, 31022),

Gene: Naca_42 Start: 31534, Stop: 31271, Start Num: 6

Candidate Starts for Naca_42:

(Start: 6 @31534 has 33 MA's), (Start: 7 @31525 has 3 MA's), (10, 31504), (13, 31483), (19, 31366), (20, 31342),

Gene: PetterN_44 Start: 30975, Stop: 30712, Start Num: 6

Candidate Starts for PetterN_44:

(3, 31053), (Start: 6 @30975 has 33 MA's), (Start: 7 @30966 has 3 MA's), (10, 30945), (13, 30924), (19, 30807), (20, 30783),

Gene: Phlorence_39 Start: 30794, Stop: 30531, Start Num: 6

Candidate Starts for Phlorence_39:

(Start: 6 @30794 has 33 MA's), (Start: 7 @30785 has 3 MA's), (8, 30776), (12, 30755), (13, 30743), (18, 30659), (19, 30626), (21, 30593),

Gene: PickleBack_40 Start: 30920, Stop: 30657, Start Num: 6

Candidate Starts for PickleBack_40:

(Start: 6 @30920 has 33 MA's), (Start: 7 @30911 has 3 MA's), (8, 30902), (12, 30881), (13, 30869), (18, 30785), (19, 30752), (21, 30719),

Gene: Prinash11_41 Start: 31086, Stop: 30823, Start Num: 6

Candidate Starts for Prinash11_41:

(Start: 6 @31086 has 33 MA's), (Start: 7 @31077 has 3 MA's), (13, 31035), (14, 31005), (18, 30951), (19, 30918), (21, 30885),

Gene: Scorpia_44 Start: 31052, Stop: 30789, Start Num: 6

Candidate Starts for Scorpia_44:

(3, 31130), (Start: 6 @31052 has 33 MA's), (Start: 7 @31043 has 3 MA's), (10, 31022), (13, 31001), (19, 30884), (20, 30860),

Gene: Swirley_43 Start: 31587, Stop: 31324, Start Num: 6

Candidate Starts for Swirley_43:

(Start: 6 @31587 has 33 MA's), (Start: 7 @31578 has 3 MA's), (13, 31536), (14, 31506), (18, 31452), (19, 31419), (21, 31386),

Gene: SydNat_42 Start: 31777, Stop: 31514, Start Num: 6

Candidate Starts for SydNat_42:

(Start: 6 @31777 has 33 MA's), (Start: 7 @31768 has 3 MA's), (13, 31726), (14, 31696), (18, 31642), (19, 31609), (21, 31576),

Gene: Tarynearal_39 Start: 31029, Stop: 30766, Start Num: 6

Candidate Starts for Tarynearal_39:

(Start: 6 @31029 has 33 MA's), (Start: 7 @31020 has 3 MA's), (13, 30978), (14, 30948), (18, 30894), (19, 30861), (21, 30828),

Gene: Theia_38 Start: 31043, Stop: 30789, Start Num: 7

Candidate Starts for Theia_38:

(Start: 6 @31052 has 33 MA's), (Start: 7 @31043 has 3 MA's), (8, 31034), (12, 31013), (13, 31001), (18, 30917), (19, 30884), (21, 30851),

Gene: Tiger_39 Start: 30576, Stop: 30322, Start Num: 7

Candidate Starts for Tiger_39:

(Start: 6 @30585 has 33 MA's), (Start: 7 @30576 has 3 MA's), (8, 30567), (12, 30546), (13, 30534), (18, 30450), (19, 30417), (21, 30384),

Gene: Timshel_45 Start: 33822, Stop: 33541, Start Num: 4

Candidate Starts for Timshel_45:

(1, 33957), (Start: 4 @33822 has 3 MA's), (11, 33759), (15, 33702), (17, 33672), (22, 33564),

Gene: UnionJack_41 Start: 30553, Stop: 30302, Start Num: 6

Candidate Starts for UnionJack_41:

(2, 30643), (3, 30631), (Start: 6 @30553 has 33 MA's), (Start: 7 @30544 has 3 MA's), (13, 30502), (14, 30472), (18, 30418), (19, 30385), (21, 30352),

Gene: Zolita_41 Start: 31781, Stop: 31518, Start Num: 6

Candidate Starts for Zolita_41:

(Start: 6 @31781 has 33 MA's), (Start: 7 @31772 has 3 MA's), (13, 31730), (14, 31700), (18, 31646), (19, 31613), (21, 31580),