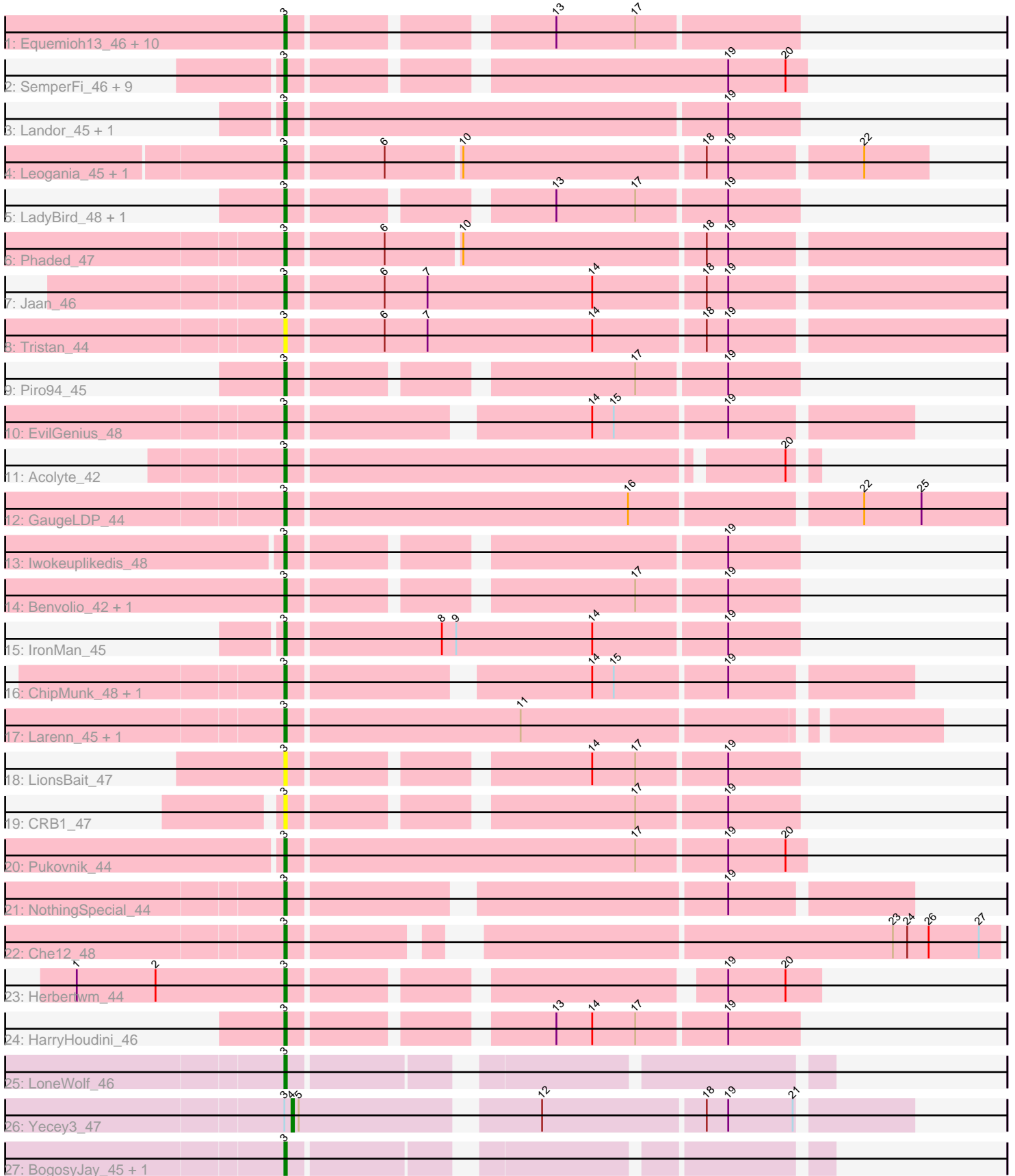


Pham 221490



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 221490 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221490 has 53 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Equemioh13_46, Centaur_46, Buggy_47, NaSiaTalie_45, MiculUcigas_45, WideWale_46, Sknot_47, Gratitude_45, Terrific_48, Updawg_46, Flare16_45
- Track 2 : SemperFi_46, Crucio_45, Anselm_46, Retro23_46, Dalmatian_46, Power_44, Georgie2_46, FiringLine_45, SnapTap_45, QueenBeesly_45
- Track 3 : Landor_45, Bactobuster_44
- Track 4 : Leogania_45, BiancaTri92_45
- Track 5 : LadyBird_48, Baehexic_44
- Track 6 : Phaded_47
- Track 7 : Jaan_46
- Track 8 : Tristan_44
- Track 9 : Piro94_45
- Track 10 : EvilGenius_48
- Track 11 : Acolyte_42
- Track 12 : GaugeLDP_44
- Track 13 : Iwokeuplikedis_48
- Track 14 : Benvolio_42, Echild_45
- Track 15 : IronMan_45
- Track 16 : ChipMunk_48, KingCyrus_48
- Track 17 : Larenn_45, Malec_46
- Track 18 : LionsBait_47
- Track 19 : CRB1_47
- Track 20 : Pukovnik_44
- Track 21 : NothingSpecial_44
- Track 22 : Che12_48
- Track 23 : Herbertwm_44
- Track 24 : HarryHoudini_46
- Track 25 : LoneWolf_46
- Track 26 : Yecey3_47
- Track 27 : BogosyJay_45, Maminiaina_45

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

The start number called the most often in the published annotations is 3, it was called in 46 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acolyte_42, Anselm_46, Bactobuster_44, Baehexic_44, Benvolio_42, BiancaTri92_45, BogosyJay_45, Buggy_47, CRB1_47, Centaur_46, Che12_48, ChipMunk_48, Crucio_45, Dalmatian_46, Echild_45, Equemioh13_46, EvilGenius_48, FiringLine_45, Flare16_45, GaugeLDP_44, Georgie2_46, Gratitude_45, HarryHoudini_46, Herbertwm_44, IronMan_45, Iwokeuplikedis_48, Jaan_46, KingCyrus_48, LadyBird_48, Landor_45, Larenn_45, Leogania_45, LionsBait_47, LoneWolf_46, Malec_46, Maminiaina_45, MiculUcigas_45, NaSiaTalie_45, NothingSpecial_44, Phaded_47, Piro94_45, Power_44, Pukovnik_44, QueenBeesly_45, Retro23_46, SemperFi_46, Sknot_47, SnapTap_45, Terrific_48, Tristan_44, Updawg_46, WideWale_46,

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

- Yecey3_47,

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

-

Summary by start number:

Start 3:

- Found in 53 of 53 (100.0%) of genes in pham
- Manual Annotations of this start: 46 of 47
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Acolyte_42 (A2), Anselm_46 (A2), Bactobuster_44 (A2), Baehexic_44 (A2), Benvolio_42 (A2), BiancaTri92_45 (A2), BogosyJay_45 (A9), Buggy_47 (A2), CRB1_47 (A2), Centaur_46 (A2), Che12_48 (A2), ChipMunk_48 (A2), Crucio_45 (A2), Dalmatian_46 (A2), Echild_45 (A2), Equemioh13_46 (A2), EvilGenius_48 (A2), FiringLine_45 (A2), Flare16_45 (A2), GaugeLDP_44 (A2), Georgie2_46 (A2), Gratitude_45 (A2), HarryHoudini_46 (A2), Herbertwm_44 (A2), IronMan_45 (A2), Iwokeuplikedis_48 (A2), Jaan_46 (A2), KingCyrus_48 (A2), LadyBird_48 (A2), Landor_45 (A2), Larenn_45 (A2), Leogania_45 (A2), LionsBait_47 (A2), LoneWolf_46 (A9), Malec_46 (A2), Maminiaina_45 (A9), MiculUcigas_45 (A2), NaSiaTalie_45 (A2), NothingSpecial_44 (A2), Phaded_47 (A2), Piro94_45 (A2), Power_44 (A2), Pukovnik_44 (A2), QueenBeesly_45 (A2), Retro23_46 (A2), SemperFi_46 (A2), Sknot_47 (A2), SnapTap_45 (A2), Terrific_48 (A2), Tristan_44 (A2), Updawg_46 (A2), WideWale_46 (A2),

Start 4:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yecey3_47 (A9),

Summary by clusters:

There are 2 clusters represented in this pham: A9, A2,

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 43 times for cluster A2.

Info for manual annotations of cluster A9:

- Start number 3 was manually annotated 3 times for cluster A9.
- Start number 4 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: Acolyte_42 Start: 31182, Stop: 30976, Start Num: 3

Candidate Starts for Acolyte_42:

(Start: 3 @31182 has 46 MA's), (20, 30984),

Gene: Anselm_46 Start: 31910, Stop: 31710, Start Num: 3

Candidate Starts for Anselm_46:

(Start: 3 @31910 has 46 MA's), (19, 31742), (20, 31718),

Gene: Bactobuster_44 Start: 32495, Stop: 32286, Start Num: 3

Candidate Starts for Bactobuster_44:

(Start: 3 @32495 has 46 MA's), (19, 32315),

Gene: Baehexic_44 Start: 31684, Stop: 31490, Start Num: 3

Candidate Starts for Baehexic_44:

(Start: 3 @31684 has 46 MA's), (13, 31588), (17, 31555), (19, 31519),

Gene: Benvolio_42 Start: 30956, Stop: 30762, Start Num: 3

Candidate Starts for Benvolio_42:

(Start: 3 @30956 has 46 MA's), (17, 30827), (19, 30791),

Gene: BiancaTri92_45 Start: 32306, Stop: 32052, Start Num: 3

Candidate Starts for BiancaTri92_45:

(Start: 3 @32306 has 46 MA's), (6, 32267), (10, 32237), (18, 32138), (19, 32129), (22, 32078),

Gene: BogosyJay_45 Start: 31543, Stop: 31346, Start Num: 3

Candidate Starts for BogosyJay_45:

(Start: 3 @31543 has 46 MA's),

Gene: Bugsy_47 Start: 32054, Stop: 31860, Start Num: 3

Candidate Starts for Bugsy_47:

(Start: 3 @32054 has 46 MA's), (13, 31958), (17, 31925),

Gene: CRB1_47 Start: 31980, Stop: 31786, Start Num: 3

Candidate Starts for CRB1_47:

(Start: 3 @31980 has 46 MA's), (17, 31851), (19, 31815),

Gene: Centaur_46 Start: 31901, Stop: 31707, Start Num: 3

Candidate Starts for Centaur_46:

(Start: 3 @31901 has 46 MA's), (13, 31805), (17, 31772),

Gene: Che12_48 Start: 30727, Stop: 30458, Start Num: 3

Candidate Starts for Che12_48:

(Start: 3 @30727 has 46 MA's), (23, 30502), (24, 30496), (26, 30487), (27, 30466),

Gene: ChipMunk_48 Start: 33451, Stop: 33212, Start Num: 3

Candidate Starts for ChipMunk_48:
(Start: 3 @33451 has 46 MA's), (14, 33337), (15, 33328), (19, 33283),

Gene: Crucio_45 Start: 31494, Stop: 31294, Start Num: 3
Candidate Starts for Crucio_45:
(Start: 3 @31494 has 46 MA's), (19, 31326), (20, 31302),

Gene: Dalmatian_46 Start: 31886, Stop: 31686, Start Num: 3
Candidate Starts for Dalmatian_46:
(Start: 3 @31886 has 46 MA's), (19, 31718), (20, 31694),

Gene: Echild_45 Start: 30980, Stop: 30786, Start Num: 3
Candidate Starts for Echild_45:
(Start: 3 @30980 has 46 MA's), (17, 30851), (19, 30815),

Gene: Equemioh13_46 Start: 31803, Stop: 31609, Start Num: 3
Candidate Starts for Equemioh13_46:
(Start: 3 @31803 has 46 MA's), (13, 31707), (17, 31674),

Gene: EvilGenius_48 Start: 33455, Stop: 33216, Start Num: 3
Candidate Starts for EvilGenius_48:
(Start: 3 @33455 has 46 MA's), (14, 33341), (15, 33332), (19, 33287),

Gene: FiringLine_45 Start: 31475, Stop: 31275, Start Num: 3
Candidate Starts for FiringLine_45:
(Start: 3 @31475 has 46 MA's), (19, 31307), (20, 31283),

Gene: Flare16_45 Start: 31562, Stop: 31368, Start Num: 3
Candidate Starts for Flare16_45:
(Start: 3 @31562 has 46 MA's), (13, 31466), (17, 31433),

Gene: GaugeLDP_44 Start: 32036, Stop: 31746, Start Num: 3
Candidate Starts for GaugeLDP_44:
(Start: 3 @32036 has 46 MA's), (16, 31895), (22, 31805), (25, 31781),

Gene: Georgie2_46 Start: 31520, Stop: 31320, Start Num: 3
Candidate Starts for Georgie2_46:
(Start: 3 @31520 has 46 MA's), (19, 31352), (20, 31328),

Gene: Gratitude_45 Start: 31803, Stop: 31609, Start Num: 3
Candidate Starts for Gratitude_45:
(Start: 3 @31803 has 46 MA's), (13, 31707), (17, 31674),

Gene: HarryHoudini_46 Start: 32007, Stop: 31813, Start Num: 3
Candidate Starts for HarryHoudini_46:
(Start: 3 @32007 has 46 MA's), (13, 31911), (14, 31896), (17, 31878), (19, 31842),

Gene: Herbertwm_44 Start: 31136, Stop: 30939, Start Num: 3
Candidate Starts for Herbertwm_44:
(1, 31223), (2, 31190), (Start: 3 @31136 has 46 MA's), (19, 30977), (20, 30953),

Gene: IronMan_45 Start: 32678, Stop: 32469, Start Num: 3
Candidate Starts for IronMan_45:

(Start: 3 @32678 has 46 MA's), (8, 32615), (9, 32609), (14, 32552), (19, 32498),

Gene: Iwokeuplikedis_48 Start: 31606, Stop: 31412, Start Num: 3

Candidate Starts for Iwokeuplikedis_48:

(Start: 3 @31606 has 46 MA's), (19, 31441),

Gene: Jaan_46 Start: 33047, Stop: 32757, Start Num: 3

Candidate Starts for Jaan_46:

(Start: 3 @33047 has 46 MA's), (6, 33008), (7, 32990), (14, 32921), (18, 32876), (19, 32867),

Gene: KingCyrus_48 Start: 33450, Stop: 33211, Start Num: 3

Candidate Starts for KingCyrus_48:

(Start: 3 @33450 has 46 MA's), (14, 33336), (15, 33327), (19, 33282),

Gene: LadyBird_48 Start: 31939, Stop: 31745, Start Num: 3

Candidate Starts for LadyBird_48:

(Start: 3 @31939 has 46 MA's), (13, 31843), (17, 31810), (19, 31774),

Gene: Landor_45 Start: 32756, Stop: 32547, Start Num: 3

Candidate Starts for Landor_45:

(Start: 3 @32756 has 46 MA's), (19, 32576),

Gene: Larenn_45 Start: 31865, Stop: 31608, Start Num: 3

Candidate Starts for Larenn_45:

(Start: 3 @31865 has 46 MA's), (11, 31769),

Gene: Leogania_45 Start: 32673, Stop: 32419, Start Num: 3

Candidate Starts for Leogania_45:

(Start: 3 @32673 has 46 MA's), (6, 32634), (10, 32604), (18, 32505), (19, 32496), (22, 32445),

Gene: LionsBait_47 Start: 33023, Stop: 32829, Start Num: 3

Candidate Starts for LionsBait_47:

(Start: 3 @33023 has 46 MA's), (14, 32912), (17, 32894), (19, 32858),

Gene: LoneWolf_46 Start: 31502, Stop: 31302, Start Num: 3

Candidate Starts for LoneWolf_46:

(Start: 3 @31502 has 46 MA's),

Gene: Malec_46 Start: 32429, Stop: 32172, Start Num: 3

Candidate Starts for Malec_46:

(Start: 3 @32429 has 46 MA's), (11, 32333),

Gene: Maminiaina_45 Start: 31525, Stop: 31328, Start Num: 3

Candidate Starts for Maminiaina_45:

(Start: 3 @31525 has 46 MA's),

Gene: MiculUcigas_45 Start: 31462, Stop: 31268, Start Num: 3

Candidate Starts for MiculUcigas_45:

(Start: 3 @31462 has 46 MA's), (13, 31366), (17, 31333),

Gene: NaSiaTalie_45 Start: 31559, Stop: 31365, Start Num: 3

Candidate Starts for NaSiaTalie_45:

(Start: 3 @31559 has 46 MA's), (13, 31463), (17, 31430),

Gene: NothingSpecial_44 Start: 32271, Stop: 32032, Start Num: 3
Candidate Starts for NothingSpecial_44:
(Start: 3 @32271 has 46 MA's), (19, 32103),

Gene: Phaded_47 Start: 32920, Stop: 32633, Start Num: 3
Candidate Starts for Phaded_47:
(Start: 3 @32920 has 46 MA's), (6, 32881), (10, 32851), (18, 32752), (19, 32743),

Gene: Piro94_45 Start: 31924, Stop: 31730, Start Num: 3
Candidate Starts for Piro94_45:
(Start: 3 @31924 has 46 MA's), (17, 31795), (19, 31759),

Gene: Power_44 Start: 31528, Stop: 31328, Start Num: 3
Candidate Starts for Power_44:
(Start: 3 @31528 has 46 MA's), (19, 31360), (20, 31336),

Gene: Pukovnik_44 Start: 32346, Stop: 32134, Start Num: 3
Candidate Starts for Pukovnik_44:
(Start: 3 @32346 has 46 MA's), (17, 32202), (19, 32166), (20, 32142),

Gene: QueenBeesly_45 Start: 31475, Stop: 31275, Start Num: 3
Candidate Starts for QueenBeesly_45:
(Start: 3 @31475 has 46 MA's), (19, 31307), (20, 31283),

Gene: Retro23_46 Start: 31882, Stop: 31682, Start Num: 3
Candidate Starts for Retro23_46:
(Start: 3 @31882 has 46 MA's), (19, 31714), (20, 31690),

Gene: SemperFi_46 Start: 31743, Stop: 31543, Start Num: 3
Candidate Starts for SemperFi_46:
(Start: 3 @31743 has 46 MA's), (19, 31575), (20, 31551),

Gene: Sknot_47 Start: 31562, Stop: 31368, Start Num: 3
Candidate Starts for Sknot_47:
(Start: 3 @31562 has 46 MA's), (13, 31466), (17, 31433),

Gene: SnapTap_45 Start: 31554, Stop: 31354, Start Num: 3
Candidate Starts for SnapTap_45:
(Start: 3 @31554 has 46 MA's), (19, 31386), (20, 31362),

Gene: Terrific_48 Start: 31916, Stop: 31722, Start Num: 3
Candidate Starts for Terrific_48:
(Start: 3 @31916 has 46 MA's), (13, 31820), (17, 31787),

Gene: Tristan_44 Start: 32727, Stop: 32437, Start Num: 3
Candidate Starts for Tristan_44:
(Start: 3 @32727 has 46 MA's), (6, 32688), (7, 32670), (14, 32601), (18, 32556), (19, 32547),

Gene: Updawg_46 Start: 31803, Stop: 31609, Start Num: 3
Candidate Starts for Updawg_46:
(Start: 3 @31803 has 46 MA's), (13, 31707), (17, 31674),

Gene: WideWale_46 Start: 31803, Stop: 31609, Start Num: 3

Candidate Starts for WideWale_46:

(Start: 3 @31803 has 46 MA's), (13, 31707), (17, 31674),

Gene: Yecey3_47 Start: 31235, Stop: 30996, Start Num: 4

Candidate Starts for Yecey3_47:

(Start: 3 @31238 has 46 MA's), (Start: 4 @31235 has 1 MA's), (5, 31232), (12, 31142), (18, 31076),
(19, 31067), (21, 31040),