

Pham 283818



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 283818 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283818 has 61 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Applejacks_24
- Track 2 : Petra_26
- Track 3 : Eudoria_26, Maridalia_25, Trumpet_26, Neobush_26, Tayonia_26, Antonio_26, Zameen_26, PantheRoc_25, BoyNamedSue_25, AlumE_25, Agueybana_25, Suscepit_26, Manasvini_26, Yeezy_26, Kita_26
- Track 4 : Hyzer_26
- Track 5 : BaxterFox_24
- Track 6 : GretelLyn_40, MoiGyank_42, Jalebi_39, Sadboi_41, Sampudon_40, Yikes_41, OtterstedtS21_40, Lambo_40, Ranch_40
- Track 7 : Gibbin_41, DoobyDoo_39, Zany_39, GOATification_41, DaviePasture_40, Patos_41, NorManre_41, Fulcrum_41
- Track 8 : Erutan_40, Rota_39, Lila22_39, Wojtek_39
- Track 9 : Alyssamiracle_41, Jamemuya19_38, Stormer_40, Astralis_38, Genamy16_41, RazorC_39, NovaSharks_40, Rumi_40
- Track 10 : Mima20_38
- Track 11 : Apeppi_37, LuckyLeo_39
- Track 12 : ParvusTarda_40, BirthdayBoy_41
- Track 13 : Alephilan_37
- Track 14 : Tillicus_38
- Track 15 : Avian_38
- Track 16 : ArchiDore_28
- Track 17 : REQ2_26
- Track 18 : Gudmit_23
- Track 19 : Whack_25
- Track 20 : Eyre_22

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

The start number called the most often in the published annotations is 5, it was called in 55 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana_25, Alephilan_37, AlumE_25, Alyssamiracle_41, Antonio_26, Apeppi_37, ArchiDore_28, Astralis_38, Avian_38, BaxterFox_24, BirthdayBoy_41,

BoyNamedSue_25, DaviePasture_40, DoobyDoo_39, Erutan_40, Eudoria_26, Eyre_22, Fulcrum_41, GOATification_41, Genamy16_41, Gibbin_41, GretelLyn_40, Gudmit_23, Hyzer_26, Jalebi_39, Jamemuya19_38, Kita_26, Lambo_40, Lila22_39, LuckyLeo_39, Manasvini_26, Maridalia_25, Mima20_38, MoiGyank_42, Neobush_26, NorManre_41, NovaSharks_40, OtterstedtS21_40, PantheRoc_25, ParvusTarda_40, Patos_41, Petra_26, Ranch_40, RazorC_39, Rota_39, Rumi_40, Sadboi_41, Sampudon_40, Stormer_40, Suscepit_26, Tayonia_26, Tillicus_38, Trumpet_26, Wojtek_39, Yeezy_26, Yikes_41, Zameen_26, Zany_39,

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

- Applejacks_24,

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

- REQ2_26, Whack_25,

Summary by start number:

Start 5:

- Found in 59 of 61 (96.7%) of genes in pham
- Manual Annotations of this start: 55 of 56
- Called 98.3% of time when present
- Phage (with cluster) where this start called: Agueybana_25 (CZ1), Alephilan_37 (DV), AlumE_25 (CZ1), Alyssmiracle_41 (DV), Antonio_26 (CZ1), Apeppi_37 (DV), ArchiDore_28 (DW), Astralis_38 (DV), Avian_38 (DV), BaxterFox_24 (CZ3), BirthdayBoy_41 (DV), BoyNamedSue_25 (CZ1), DaviePasture_40 (DV), DoobyDoo_39 (DV), Erutan_40 (DV), Eudoria_26 (CZ1), Eyre_22 (singleton), Fulcrum_41 (DV), GOATification_41 (DV), Genamy16_41 (DV), Gibbin_41 (DV), GretelLyn_40 (DV), Gudmit_23 (singleton), Hyzer_26 (CZ1), Jalebi_39 (DV), Jamemuya19_38 (DV), Kita_26 (CZ1), Lambo_40 (DV), Lila22_39 (DV), LuckyLeo_39 (DV), Manasvini_26 (CZ1), Maridalia_25 (CZ1), Mima20_38 (DV), MoiGyank_42 (DV), Neobush_26 (CZ1), NorManre_41 (DV), NovaSharks_40 (DV), OtterstedtS21_40 (DV), PantheRoc_25 (CZ3), ParvusTarda_40 (DV), Patos_41 (DV), Petra_26 (CV), Ranch_40 (DV), RazorC_39 (DV), Rota_39 (DV), Rumi_40 (DV), Sadboi_41 (DV), Sampudon_40 (DV), Stormer_40 (DV), Suscepit_26 (CZ1), Tayonia_26 (CZ1), Tillicus_38 (DV), Trumpet_26 (CZ1), Wojtek_39 (DV), Yeezy_26 (CZ3), Yikes_41 (DV), Zameen_26 (CZ1), Zany_39 (DV),

Start 13:

- Found in 2 of 61 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: REQ2_26 (singleton),

Start 14:

- Found in 20 of 61 (32.8%) of genes in pham
- No Manual Annotations of this start.
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Applejacks_24 (CD),

Start 16:

- Found in 2 of 61 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 56
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Whack_25 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, CZ3, CZ1, CD, DV, DW, CV,

Info for manual annotations of cluster CV:

- Start number 5 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ1:

- Start number 5 was manually annotated 13 times for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 5 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster DV:

- Start number 5 was manually annotated 35 times for cluster DV.

Info for manual annotations of cluster DW:

- Start number 5 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Agueybana_25 Start: 21812, Stop: 22186, Start Num: 5

Candidate Starts for Agueybana_25:

(4, 21728), (Start: 5 @21812 has 55 MA's), (9, 21860), (14, 21884), (15, 21890), (18, 21914), (21, 21923), (25, 21935), (52, 22127), (54, 22133), (55, 22136),

Gene: Alephilan_37 Start: 32269, Stop: 32664, Start Num: 5

Candidate Starts for Alephilan_37:

(Start: 5 @32269 has 55 MA's), (12, 32335), (23, 32389), (31, 32419), (35, 32470), (37, 32482), (42, 32512), (43, 32515), (51, 32581), (56, 32602), (57, 32605), (60, 32617),

Gene: AlumE_25 Start: 21811, Stop: 22185, Start Num: 5

Candidate Starts for AlumE_25:

(4, 21727), (Start: 5 @21811 has 55 MA's), (9, 21859), (14, 21883), (15, 21889), (18, 21913), (21, 21922), (25, 21934), (52, 22126), (54, 22132), (55, 22135),

Gene: Alyssamiracle_41 Start: 31366, Stop: 31752, Start Num: 5

Candidate Starts for Alyssamiracle_41:

(Start: 5 @31366 has 55 MA's), (23, 31486), (31, 31516), (32, 31543), (35, 31567), (37, 31579), (42, 31609), (43, 31612), (51, 31678), (56, 31699), (57, 31702), (60, 31714),

Gene: Antonio_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Antonio_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Apeppi_37 Start: 32448, Stop: 32855, Start Num: 5

Candidate Starts for Apeppi_37:

(Start: 5 @32448 has 55 MA's), (7, 32481), (18, 32553), (22, 32565), (23, 32568), (28, 32586), (32, 32625), (34, 32646), (40, 32679), (42, 32691), (50, 32757), (52, 32766), (54, 32772), (56, 32781), (60, 32796),

Gene: Applejacks_24 Start: 19251, Stop: 19565, Start Num: 14

Candidate Starts for Applejacks_24:

(Start: 5 @19188 has 55 MA's), (10, 19239), (14, 19251), (18, 19275), (28, 19308), (35, 19371), (36, 19380), (46, 19428), (49, 19467), (52, 19488), (57, 19506), (58, 19509), (59, 19515),

Gene: ArchiDore_28 Start: 24132, Stop: 24521, Start Num: 5

Candidate Starts for ArchiDore_28:

(Start: 5 @24132 has 55 MA's), (7, 24165), (10, 24183), (14, 24204), (22, 24249), (24, 24255), (27, 24264), (33, 24327), (37, 24345),

Gene: Astralis_38 Start: 30956, Stop: 31342, Start Num: 5

Candidate Starts for Astralis_38:

(Start: 5 @30956 has 55 MA's), (23, 31076), (31, 31106), (32, 31133), (35, 31157), (37, 31169), (42, 31199), (43, 31202), (51, 31268), (56, 31289), (57, 31292), (60, 31304),

Gene: Avian_38 Start: 31348, Stop: 31743, Start Num: 5

Candidate Starts for Avian_38:

(Start: 5 @31348 has 55 MA's), (23, 31468), (31, 31498), (32, 31525), (35, 31549), (37, 31561), (43, 31594), (51, 31660), (56, 31681), (57, 31684), (60, 31696),

Gene: BaxterFox_24 Start: 21132, Stop: 21506, Start Num: 5

Candidate Starts for BaxterFox_24:

(1, 20949), (2, 20961), (3, 20967), (4, 21048), (Start: 5 @21132 has 55 MA's), (14, 21204), (15, 21210), (18, 21234), (21, 21243), (25, 21255), (28, 21267), (34, 21327), (41, 21369), (52, 21447), (54, 21453), (55, 21456),

Gene: BirthdayBoy_41 Start: 33095, Stop: 33490, Start Num: 5

Candidate Starts for BirthdayBoy_41:

(Start: 5 @33095 has 55 MA's), (12, 33161), (20, 33206), (23, 33215), (31, 33245), (35, 33296), (37, 33308), (51, 33407), (56, 33428), (57, 33431), (60, 33443),

Gene: BoyNamedSue_25 Start: 21811, Stop: 22185, Start Num: 5

Candidate Starts for BoyNamedSue_25:

(4, 21727), (Start: 5 @21811 has 55 MA's), (9, 21859), (14, 21883), (15, 21889), (18, 21913), (21, 21922), (25, 21934), (52, 22126), (54, 22132), (55, 22135),

Gene: DaviePasture_40 Start: 32896, Stop: 33291, Start Num: 5

Candidate Starts for DaviePasture_40:

(Start: 5 @32896 has 55 MA's), (12, 32962), (23, 33016), (35, 33097), (37, 33109), (42, 33139), (51, 33208), (56, 33229), (57, 33232), (60, 33244),

Gene: DoobyDoo_39 Start: 32046, Stop: 32441, Start Num: 5

Candidate Starts for DoobyDoo_39:

(Start: 5 @32046 has 55 MA's), (12, 32112), (23, 32166), (35, 32247), (37, 32259), (42, 32289), (51, 32358), (56, 32379), (57, 32382), (60, 32394),

Gene: Erutan_40 Start: 32554, Stop: 32949, Start Num: 5

Candidate Starts for Erutan_40:

(Start: 5 @32554 has 55 MA's), (12, 32620), (23, 32674), (31, 32704), (35, 32755), (37, 32767), (51, 32866), (56, 32887), (57, 32890), (60, 32902),

Gene: Eudoria_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Eudoria_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Eyre_22 Start: 19166, Stop: 19540, Start Num: 5

Candidate Starts for Eyre_22:

(4, 19082), (Start: 5 @19166 has 55 MA's), (14, 19238), (18, 19268), (21, 19277), (25, 19289), (28, 19301), (31, 19313), (35, 19364), (39, 19388), (41, 19403), (49, 19460),

Gene: Fulcrum_41 Start: 33075, Stop: 33470, Start Num: 5

Candidate Starts for Fulcrum_41:

(Start: 5 @33075 has 55 MA's), (12, 33141), (23, 33195), (35, 33276), (37, 33288), (42, 33318), (51, 33387), (56, 33408), (57, 33411), (60, 33423),

Gene: GOATification_41 Start: 33075, Stop: 33470, Start Num: 5

Candidate Starts for GOATification_41:

(Start: 5 @33075 has 55 MA's), (12, 33141), (23, 33195), (35, 33276), (37, 33288), (42, 33318), (51, 33387), (56, 33408), (57, 33411), (60, 33423),

Gene: Genamy16_41 Start: 31366, Stop: 31752, Start Num: 5

Candidate Starts for Genamy16_41:

(Start: 5 @31366 has 55 MA's), (23, 31486), (31, 31516), (32, 31543), (35, 31567), (37, 31579), (42, 31609), (43, 31612), (51, 31678), (56, 31699), (57, 31702), (60, 31714),

Gene: Gibbin_41 Start: 33173, Stop: 33559, Start Num: 5

Candidate Starts for Gibbin_41:

(Start: 5 @33173 has 55 MA's), (12, 33239), (23, 33293), (35, 33374), (37, 33386), (42, 33416), (51, 33485), (56, 33506), (57, 33509), (60, 33521),

Gene: Gretellyn_40 Start: 33439, Stop: 33834, Start Num: 5

Candidate Starts for Gretellyn_40:

(Start: 5 @33439 has 55 MA's), (12, 33505), (23, 33559), (31, 33589), (35, 33640), (37, 33652), (42, 33682), (51, 33751), (56, 33772), (57, 33775), (60, 33787),

Gene: Gudmit_23 Start: 19228, Stop: 19611, Start Num: 5

Candidate Starts for Gudmit_23:

(Start: 5 @19228 has 55 MA's), (11, 19285), (17, 19324), (19, 19336), (25, 19354), (27, 19360), (29, 19372), (40, 19459), (41, 19468), (44, 19480), (47, 19516), (50, 19537), (54, 19552), (57, 19564),

Gene: Hyzer_26 Start: 22472, Stop: 22846, Start Num: 5

Candidate Starts for Hyzer_26:

(Start: 5 @22472 has 55 MA's), (9, 22520), (14, 22544), (18, 22574), (21, 22583), (25, 22595), (28, 22607), (34, 22667), (52, 22787), (54, 22793),

Gene: Jalebi_39 Start: 33608, Stop: 34003, Start Num: 5

Candidate Starts for Jalebi_39:

(Start: 5 @33608 has 55 MA's), (12, 33674), (23, 33728), (31, 33758), (35, 33809), (37, 33821), (42, 33851), (51, 33920), (56, 33941), (57, 33944), (60, 33956),

Gene: Jamemuya19_38 Start: 30956, Stop: 31342, Start Num: 5

Candidate Starts for Jamemuya19_38:

(Start: 5 @30956 has 55 MA's), (23, 31076), (31, 31106), (32, 31133), (35, 31157), (37, 31169), (42, 31199), (43, 31202), (51, 31268), (56, 31289), (57, 31292), (60, 31304),

Gene: Kita_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Kita_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Lambo_40 Start: 33093, Stop: 33488, Start Num: 5

Candidate Starts for Lambo_40:

(Start: 5 @33093 has 55 MA's), (12, 33159), (23, 33213), (31, 33243), (35, 33294), (37, 33306), (42, 33336), (51, 33405), (56, 33426), (57, 33429), (60, 33441),

Gene: Lila22_39 Start: 33048, Stop: 33443, Start Num: 5

Candidate Starts for Lila22_39:

(Start: 5 @33048 has 55 MA's), (12, 33114), (23, 33168), (31, 33198), (35, 33249), (37, 33261), (51, 33360), (56, 33381), (57, 33384), (60, 33396),

Gene: LuckyLeo_39 Start: 32448, Stop: 32855, Start Num: 5

Candidate Starts for LuckyLeo_39:

(Start: 5 @32448 has 55 MA's), (7, 32481), (18, 32553), (22, 32565), (23, 32568), (28, 32586), (32, 32625), (34, 32646), (40, 32679), (42, 32691), (50, 32757), (52, 32766), (54, 32772), (56, 32781), (60, 32796),

Gene: Manasvini_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Manasvini_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Maridalia_25 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Maridalia_25:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Mima20_38 Start: 32797, Stop: 33192, Start Num: 5

Candidate Starts for Mima20_38:

(Start: 5 @32797 has 55 MA's), (12, 32863), (23, 32917), (31, 32947), (35, 32998), (37, 33010), (42, 33040), (44, 33049), (51, 33109), (56, 33130), (57, 33133), (60, 33145),

Gene: MoiGyank_42 Start: 33478, Stop: 33873, Start Num: 5

Candidate Starts for MoiGyank_42:

(Start: 5 @33478 has 55 MA's), (12, 33544), (23, 33598), (31, 33628), (35, 33679), (37, 33691), (42, 33721), (51, 33790), (56, 33811), (57, 33814), (60, 33826),

Gene: Neobush_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Neobush_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: NorManre_41 Start: 32684, Stop: 33079, Start Num: 5

Candidate Starts for NorManre_41:

(Start: 5 @32684 has 55 MA's), (12, 32750), (23, 32804), (35, 32885), (37, 32897), (42, 32927), (51, 32996), (56, 33017), (57, 33020), (60, 33032),

Gene: NovaSharks_40 Start: 30956, Stop: 31342, Start Num: 5

Candidate Starts for NovaSharks_40:

(Start: 5 @30956 has 55 MA's), (23, 31076), (31, 31106), (32, 31133), (35, 31157), (37, 31169), (42, 31199), (43, 31202), (51, 31268), (56, 31289), (57, 31292), (60, 31304),

Gene: OtterstedtS21_40 Start: 32755, Stop: 33150, Start Num: 5

Candidate Starts for OtterstedtS21_40:

(Start: 5 @32755 has 55 MA's), (12, 32821), (23, 32875), (31, 32905), (35, 32956), (37, 32968), (42, 32998), (51, 33067), (56, 33088), (57, 33091), (60, 33103),

Gene: PantheRoc_25 Start: 21130, Stop: 21504, Start Num: 5

Candidate Starts for PantheRoc_25:

(4, 21046), (Start: 5 @21130 has 55 MA's), (9, 21178), (14, 21202), (15, 21208), (18, 21232), (21, 21241), (25, 21253), (52, 21445), (54, 21451), (55, 21454),

Gene: ParvusTarda_40 Start: 32223, Stop: 32618, Start Num: 5

Candidate Starts for ParvusTarda_40:

(Start: 5 @32223 has 55 MA's), (12, 32289), (20, 32334), (23, 32343), (31, 32373), (35, 32424), (37, 32436), (51, 32535), (56, 32556), (57, 32559), (60, 32571),

Gene: Patos_41 Start: 32684, Stop: 33079, Start Num: 5

Candidate Starts for Patos_41:

(Start: 5 @32684 has 55 MA's), (12, 32750), (23, 32804), (35, 32885), (37, 32897), (42, 32927), (51, 32996), (56, 33017), (57, 33020), (60, 33032),

Gene: Petra_26 Start: 20781, Stop: 21155, Start Num: 5

Candidate Starts for Petra_26:

(Start: 5 @20781 has 55 MA's), (7, 20814), (9, 20829), (18, 20883), (21, 20892), (25, 20904), (34, 20976), (52, 21096), (54, 21102), (56, 21111),

Gene: REQ2_26 Start: 22510, Stop: 22854, Start Num: 13

Candidate Starts for REQ2_26:

(13, 22510), (Start: 16 @22528 has 1 MA's), (22, 22558), (26, 22570), (27, 22573), (30, 22588), (38, 22657), (52, 22759), (53, 22762), (56, 22774),

Gene: Ranch_40 Start: 31581, Stop: 31976, Start Num: 5

Candidate Starts for Ranch_40:

(Start: 5 @31581 has 55 MA's), (12, 31647), (23, 31701), (31, 31731), (35, 31782), (37, 31794), (42, 31824), (51, 31893), (56, 31914), (57, 31917), (60, 31929),

Gene: RazorC_39 Start: 31348, Stop: 31734, Start Num: 5

Candidate Starts for RazorC_39:

(Start: 5 @31348 has 55 MA's), (23, 31468), (31, 31498), (32, 31525), (35, 31549), (37, 31561), (42, 31591), (43, 31594), (51, 31660), (56, 31681), (57, 31684), (60, 31696),

Gene: Rota_39 Start: 32964, Stop: 33359, Start Num: 5

Candidate Starts for Rota_39:

(Start: 5 @32964 has 55 MA's), (12, 33030), (23, 33084), (31, 33114), (35, 33165), (37, 33177), (51, 33276), (56, 33297), (57, 33300), (60, 33312),

Gene: Rumi_40 Start: 30959, Stop: 31345, Start Num: 5

Candidate Starts for Rumi_40:

(Start: 5 @30959 has 55 MA's), (23, 31079), (31, 31109), (32, 31136), (35, 31160), (37, 31172), (42, 31202), (43, 31205), (51, 31271), (56, 31292), (57, 31295), (60, 31307),

Gene: Sadboi_41 Start: 33440, Stop: 33835, Start Num: 5

Candidate Starts for Sadboi_41:

(Start: 5 @33440 has 55 MA's), (12, 33506), (23, 33560), (31, 33590), (35, 33641), (37, 33653), (42, 33683), (51, 33752), (56, 33773), (57, 33776), (60, 33788),

Gene: Sampudon_40 Start: 33608, Stop: 34003, Start Num: 5

Candidate Starts for Sampudon_40:

(Start: 5 @33608 has 55 MA's), (12, 33674), (23, 33728), (31, 33758), (35, 33809), (37, 33821), (42, 33851), (51, 33920), (56, 33941), (57, 33944), (60, 33956),

Gene: Stormer_40 Start: 30962, Stop: 31348, Start Num: 5

Candidate Starts for Stormer_40:

(Start: 5 @30962 has 55 MA's), (23, 31082), (31, 31112), (32, 31139), (35, 31163), (37, 31175), (42, 31205), (43, 31208), (51, 31274), (56, 31295), (57, 31298), (60, 31310),

Gene: Susceptit_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Susceptit_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Tayonia_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Tayonia_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Tillicus_38 Start: 32042, Stop: 32440, Start Num: 5

Candidate Starts for Tillicus_38:

(Start: 5 @32042 has 55 MA's), (18, 32147), (22, 32159), (23, 32162), (28, 32180), (32, 32219), (34, 32240), (40, 32273), (42, 32285), (50, 32351), (52, 32360), (55, 32369), (56, 32375), (60, 32390),

Gene: Trumpet_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Trumpet_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Whack_25 Start: 21433, Stop: 21819, Start Num: 16

Candidate Starts for Whack_25:

(6, 21367), (8, 21391), (13, 21415), (Start: 16 @21433 has 1 MA's), (25, 21472), (45, 21601), (46, 21604), (48, 21640), (56, 21679),

Gene: Wojtek_39 Start: 32308, Stop: 32703, Start Num: 5

Candidate Starts for Wojtek_39:

(Start: 5 @32308 has 55 MA's), (12, 32374), (23, 32428), (31, 32458), (35, 32509), (37, 32521), (51, 32620), (56, 32641), (57, 32644), (60, 32656),

Gene: Yeezy_26 Start: 21154, Stop: 21528, Start Num: 5

Candidate Starts for Yeezy_26:

(4, 21070), (Start: 5 @21154 has 55 MA's), (9, 21202), (14, 21226), (15, 21232), (18, 21256), (21, 21265), (25, 21277), (52, 21469), (54, 21475), (55, 21478),

Gene: Yikes_41 Start: 33687, Stop: 34082, Start Num: 5

Candidate Starts for Yikes_41:

(Start: 5 @33687 has 55 MA's), (12, 33753), (23, 33807), (31, 33837), (35, 33888), (37, 33900), (42, 33930), (51, 33999), (56, 34020), (57, 34023), (60, 34035),

Gene: Zameen_26 Start: 21932, Stop: 22306, Start Num: 5

Candidate Starts for Zameen_26:

(4, 21848), (Start: 5 @21932 has 55 MA's), (9, 21980), (14, 22004), (15, 22010), (18, 22034), (21, 22043), (25, 22055), (52, 22247), (54, 22253), (55, 22256),

Gene: Zany_39 Start: 33212, Stop: 33607, Start Num: 5

Candidate Starts for Zany_39:

(Start: 5 @33212 has 55 MA's), (12, 33278), (23, 33332), (35, 33413), (37, 33425), (42, 33455), (51, 33524), (56, 33545), (57, 33548), (60, 33560),