

Pham 330852



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 330852 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330852 has 64 members, 19 are drafts.

Phages represented in each track:

- Track 1 : Hashim76_67
- Track 2 : Stinger_59
- Track 3 : Epah_57, Fanaw_57, BobbyK_59, Hally898_57, BrownCNA_60, ChrisnMich_58, GinPorsche_58, Antihero_57, Fortunato_59, Hangman_58, Waleliano_58, VioletZ_60, Poster_57, Mithril_58, Ahwei_57, Heath_57, Frederick_59, Lolalove_59, Nanao_57, Zemanar_59, Magpie_57, Lambano_57, RawrgerThat_59, JoyceMaria_58
- Track 4 : Hydro_58, Prince_58, Apex_59, Mudslide_58, Austelle_59
- Track 5 : Vincenzo_61, AlanGrant_62
- Track 6 : JaguarMi_60
- Track 7 : JAMaL_58, LittleDigger_57, Renkei_57
- Track 8 : Cooper_60
- Track 9 : QueenPie_56
- Track 10 : Xincheng_59
- Track 11 : Nigel_58
- Track 12 : Phelemich_61, Reprobate_62
- Track 13 : Suigeneris_65, Acadian_64, Rita130_63, Reccee_64, EastView9101_63, Donny_65, SirJeffery_63
- Track 14 : Baee_64
- Track 15 : Shenyu_63, Nangang_63, KarasumaRum_63, StinkyVeggy_63, DigitDog_64
- Track 16 : Mysterious_61, Nehemiah_62
- Track 17 : Serendipitous_62
- Track 18 : Rich_62
- Track 19 : Funsized_64
- Track 20 : CRB2_61
- Track 21 : Knocker_63
- Track 22 : Quesadilla_63

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

The start number called the most often in the published annotations is 8, it was called in 40 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian_64, Ahwei_57, AlanGrant_62, Antihero_57, Apex_59, Austelle_59, Baee_64, BobbyK_59, BrownCNA_60, ChrisnMich_58, Cooper_60, Donny_65, EastView9101_63, Epah_57, Fanaw_57, Fortunato_59, Frederick_59, GinPorsche_58, Hally898_57, Hangman_58, Heath_57, Hydro_58, JAMaL_58, JaguarMi_60, JoyceMaria_58, Lambano_57, LittleDigger_57, Lolalove_59, Magpie_57, Mithril_58, Mudslide_58, Mysterious_61, Nanao_57, Nehemiah_62, Nigel_58, Phelemich_61, Poster_57, Prince_58, QueenPie_56, RawrgerThat_59, Reccee_64, Renkei_57, Reprobate_62, Rich_62, Rita130_63, Serendipitous_62, SirJeffery_63, Stinger_59, Suigeneris_65, Vincenzo_61, VioletZ_60, Waleliano_58, Xincheng_59, Zemanar_59,

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

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

- CRB2_61, DigitDog_64, Funsized_64, Hashim76_67, KarasumaRum_63, Knocker_63, Nangang_63, Quesadilla_63, Shenyu_63, StinkyVeggy_63,

Summary by start number:

Start 6:

- Found in 1 of 64 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2_61 (B9),

Start 7:

- Found in 2 of 64 (3.1%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hashim76_67 (B13), Knocker_63 (B9),

Start 8:

- Found in 54 of 64 (84.4%) of genes in pham
- Manual Annotations of this start: 40 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian_64 (B5), Ahwei_57 (B4), AlanGrant_62 (B4), Antihero_57 (B4), Apex_59 (B4), Austelle_59 (B4), Baee_64 (B5), BobbyK_59 (B4), BrownCNA_60 (B4), ChrisnMich_58 (B4), Cooper_60 (B4), Donny_65 (B5), EastView9101_63 (B5), Epah_57 (B4), Fanaw_57 (B4), Fortunato_59 (B4), Frederick_59 (B4), GinPorsche_58 (B4), Hally898_57 (B4), Hangman_58 (B4), Heath_57 (B4), Hydro_58 (B4), JAMaL_58 (B4), JaguarMi_60 (B4), JoyceMaria_58 (B4), Lambano_57 (B4), LittleDigger_57 (B4), Lolalove_59 (B4), Magpie_57 (B4), Mithril_58 (B4), Mudslide_58 (B4), Mysterious_61 (B5), Nanao_57 (B4), Nehemiah_62 (B5), Nigel_58 (B4), Phelemich_61 (B5), Poster_57 (B4), Prince_58 (B4), QueenPie_56 (B4), RawrgerThat_59 (B4), Reccee_64 (B5), Renkei_57 (B4), Reprobate_62 (B5), Rich_62 (B5), Rita130_63 (B5), Serendipitous_62 (B5), SirJeffery_63 (B5), Stinger_59 (B4), Suigeneris_65 (B5), Vincenzo_61 (B4), VioletZ_60 (B4), Waleliano_58 (B4), Xincheng_59 (B4), Zemanar_59 (B4),

Start 9:

- Found in 5 of 64 (7.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DigitDog_64 (B5), KarasumaRum_63 (B5), Nangang_63 (B5), Shenyu_63 (B5), StinkyVeggy_63 (B5),

Start 10:

- Found in 1 of 64 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Quesadilla_63 (B9),

Start 11:

- Found in 1 of 64 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Funsized_64 (B9),

Summary by clusters:

There are 4 clusters represented in this pham: B4, B5, B9, B13,

Info for manual annotations of cluster B13:

- Start number 7 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B4:

- Start number 8 was manually annotated 29 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 8 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B9:

- Start number 6 was manually annotated 1 time for cluster B9.
- Start number 7 was manually annotated 1 time for cluster B9.
- Start number 10 was manually annotated 1 time for cluster B9.
- Start number 11 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: Acadian_64 Start: 56676, Stop: 56335, Start Num: 8

Candidate Starts for Acadian_64:

(Start: 8 @56676 has 40 MA's), (12, 56649), (15, 56631), (24, 56565), (35, 56532), (42, 56484), (56, 56394), (61, 56364), (63, 56346),

Gene: Ahwei_57 Start: 55326, Stop: 55054, Start Num: 8

Candidate Starts for Ahwei_57:

(Start: 8 @55326 has 40 MA's), (12, 55299), (13, 55296), (19, 55257), (42, 55152), (44, 55125), (47, 55113), (51, 55095), (53, 55086),

Gene: AlanGrant_62 Start: 57505, Stop: 57170, Start Num: 8

Candidate Starts for AlanGrant_62:

(Start: 8 @57505 has 40 MA's), (12, 57478), (19, 57436), (23, 57391), (29, 57361), (33, 57337), (34, 57334), (53, 57217), (60, 57190),

Gene: Antihero_57 Start: 55324, Stop: 55052, Start Num: 8

Candidate Starts for Antihero_57:

(Start: 8 @55324 has 40 MA's), (12, 55297), (13, 55294), (19, 55255), (42, 55150), (44, 55123), (47, 55111), (51, 55093), (53, 55084),

Gene: Apex_59 Start: 56547, Stop: 56275, Start Num: 8

Candidate Starts for Apex_59:

(Start: 8 @56547 has 40 MA's), (12, 56520), (13, 56517), (19, 56478), (42, 56373), (44, 56346), (47, 56334), (51, 56316), (53, 56307), (56, 56292),

Gene: Austelle_59 Start: 57003, Stop: 56731, Start Num: 8

Candidate Starts for Austelle_59:

(Start: 8 @57003 has 40 MA's), (12, 56976), (13, 56973), (19, 56934), (42, 56829), (44, 56802), (47, 56790), (51, 56772), (53, 56763), (56, 56748),

Gene: Baee_64 Start: 57648, Stop: 57262, Start Num: 8

Candidate Starts for Baee_64:

(Start: 8 @57648 has 40 MA's), (12, 57621), (13, 57618), (15, 57603), (24, 57537), (36, 57465), (37, 57462), (56, 57321), (61, 57291), (62, 57279), (63, 57273),

Gene: BobbyK_59 Start: 56313, Stop: 56041, Start Num: 8

Candidate Starts for BobbyK_59:

(Start: 8 @56313 has 40 MA's), (12, 56286), (13, 56283), (19, 56244), (42, 56139), (44, 56112), (47, 56100), (51, 56082), (53, 56073),

Gene: BrownCNA_60 Start: 56670, Stop: 56398, Start Num: 8

Candidate Starts for BrownCNA_60:

(Start: 8 @56670 has 40 MA's), (12, 56643), (13, 56640), (19, 56601), (42, 56496), (44, 56469), (47, 56457), (51, 56439), (53, 56430),

Gene: CRB2_61 Start: 57387, Stop: 56986, Start Num: 6

Candidate Starts for CRB2_61:

(Start: 6 @57387 has 1 MA's), (18, 57309), (28, 57231), (38, 57168), (41, 57126), (49, 57051), (50, 57048),

Gene: ChrisnMich_58 Start: 55338, Stop: 55066, Start Num: 8

Candidate Starts for ChrisnMich_58:

(Start: 8 @55338 has 40 MA's), (12, 55311), (13, 55308), (19, 55269), (42, 55164), (44, 55137), (47, 55125), (51, 55107), (53, 55098),

Gene: Cooper_60 Start: 55804, Stop: 55523, Start Num: 8

Candidate Starts for Cooper_60:

(Start: 8 @55804 has 40 MA's), (12, 55777), (19, 55735), (20, 55729), (27, 55684), (40, 55633), (42, 55609), (47, 55570), (54, 55537),

Gene: DigitDog_64 Start: 56730, Stop: 56395, Start Num: 9

Candidate Starts for DigitDog_64:

(9, 56730), (12, 56706), (13, 56703), (14, 56697), (15, 56688), (42, 56544), (56, 56454), (61, 56424), (63, 56406),

Gene: Donny_65 Start: 56722, Stop: 56381, Start Num: 8

Candidate Starts for Donny_65:

(Start: 8 @56722 has 40 MA's), (12, 56695), (15, 56677), (24, 56611), (35, 56578), (42, 56530), (56, 56440), (61, 56410), (63, 56392),

Gene: EastView9101_63 Start: 56420, Stop: 56079, Start Num: 8

Candidate Starts for EastView9101_63:

(Start: 8 @56420 has 40 MA's), (12, 56393), (15, 56375), (24, 56309), (35, 56276), (42, 56228), (56, 56138), (61, 56108), (63, 56090),

Gene: Epah_57 Start: 55324, Stop: 55052, Start Num: 8

Candidate Starts for Epah_57:

(Start: 8 @55324 has 40 MA's), (12, 55297), (13, 55294), (19, 55255), (42, 55150), (44, 55123), (47, 55111), (51, 55093), (53, 55084),

Gene: Fanaw_57 Start: 56225, Stop: 55953, Start Num: 8

Candidate Starts for Fanaw_57:

(Start: 8 @56225 has 40 MA's), (12, 56198), (13, 56195), (19, 56156), (42, 56051), (44, 56024), (47, 56012), (51, 55994), (53, 55985),

Gene: Fortunato_59 Start: 56365, Stop: 56093, Start Num: 8

Candidate Starts for Fortunato_59:

(Start: 8 @56365 has 40 MA's), (12, 56338), (13, 56335), (19, 56296), (42, 56191), (44, 56164), (47, 56152), (51, 56134), (53, 56125),

Gene: Frederick_59 Start: 56256, Stop: 55984, Start Num: 8

Candidate Starts for Frederick_59:

(Start: 8 @56256 has 40 MA's), (12, 56229), (13, 56226), (19, 56187), (42, 56082), (44, 56055), (47, 56043), (51, 56025), (53, 56016),

Gene: Funsized_64 Start: 58606, Stop: 58226, Start Num: 11

Candidate Starts for Funsized_64:

(1, 58819), (2, 58771), (4, 58690), (Start: 11 @58606 has 1 MA's), (18, 58558), (22, 58513), (30, 58456), (31, 58444), (39, 58423), (43, 58354), (49, 58306), (56, 58276), (58, 58273),

Gene: GinPorsche_58 Start: 55324, Stop: 55052, Start Num: 8

Candidate Starts for GinPorsche_58:

(Start: 8 @55324 has 40 MA's), (12, 55297), (13, 55294), (19, 55255), (42, 55150), (44, 55123), (47, 55111), (51, 55093), (53, 55084),

Gene: Hally898_57 Start: 55339, Stop: 55067, Start Num: 8

Candidate Starts for Hally898_57:

(Start: 8 @55339 has 40 MA's), (12, 55312), (13, 55309), (19, 55270), (42, 55165), (44, 55138), (47, 55126), (51, 55108), (53, 55099),

Gene: Hangman_58 Start: 56413, Stop: 56141, Start Num: 8

Candidate Starts for Hangman_58:

(Start: 8 @56413 has 40 MA's), (12, 56386), (13, 56383), (19, 56344), (42, 56239), (44, 56212), (47, 56200), (51, 56182), (53, 56173),

Gene: Hashim76_67 Start: 56917, Stop: 56558, Start Num: 7

Candidate Starts for Hashim76_67:

(3, 56998), (5, 56968), (Start: 7 @56917 has 2 MA's), (21, 56830), (34, 56734), (46, 56635), (48, 56611), (51, 56602), (57, 56578),

Gene: Heath_57 Start: 56039, Stop: 55767, Start Num: 8

Candidate Starts for Heath_57:

(Start: 8 @56039 has 40 MA's), (12, 56012), (13, 56009), (19, 55970), (42, 55865), (44, 55838), (47, 55826), (51, 55808), (53, 55799),

Gene: Hydro_58 Start: 56390, Stop: 56118, Start Num: 8

Candidate Starts for Hydro_58:

(Start: 8 @56390 has 40 MA's), (12, 56363), (13, 56360), (19, 56321), (42, 56216), (44, 56189), (47, 56177), (51, 56159), (53, 56150), (56, 56135),

Gene: JAMaL_58 Start: 56431, Stop: 56159, Start Num: 8

Candidate Starts for JAMaL_58:

(Start: 8 @56431 has 40 MA's), (12, 56404), (13, 56401), (19, 56362), (42, 56257), (44, 56230), (47, 56218), (51, 56200),

Gene: JaguarMi_60 Start: 57457, Stop: 57185, Start Num: 8

Candidate Starts for JaguarMi_60:

(Start: 8 @57457 has 40 MA's), (12, 57430), (13, 57427), (16, 57409), (19, 57388), (42, 57283), (44, 57256), (47, 57244), (51, 57226), (53, 57217),

Gene: JoyceMaria_58 Start: 56293, Stop: 56021, Start Num: 8

Candidate Starts for JoyceMaria_58:

(Start: 8 @56293 has 40 MA's), (12, 56266), (13, 56263), (19, 56224), (42, 56119), (44, 56092), (47, 56080), (51, 56062), (53, 56053),

Gene: KarasumaRum_63 Start: 56576, Stop: 56241, Start Num: 9

Candidate Starts for KarasumaRum_63:

(9, 56576), (12, 56552), (13, 56549), (14, 56543), (15, 56534), (42, 56390), (56, 56300), (61, 56270), (63, 56252),

Gene: Knocker_63 Start: 57737, Stop: 57396, Start Num: 7

Candidate Starts for Knocker_63:

(Start: 7 @57737 has 2 MA's), (26, 57617), (31, 57575), (34, 57566), (46, 57467), (48, 57443), (57, 57410), (59, 57407),

Gene: Lambano_57 Start: 55339, Stop: 55067, Start Num: 8

Candidate Starts for Lambano_57:

(Start: 8 @55339 has 40 MA's), (12, 55312), (13, 55309), (19, 55270), (42, 55165), (44, 55138), (47, 55126), (51, 55108), (53, 55099),

Gene: LittleDigger_57 Start: 55349, Stop: 55077, Start Num: 8

Candidate Starts for LittleDigger_57:

(Start: 8 @55349 has 40 MA's), (12, 55322), (13, 55319), (19, 55280), (42, 55175), (44, 55148), (47, 55136), (51, 55118),

Gene: Lolalove_59 Start: 56370, Stop: 56098, Start Num: 8

Candidate Starts for Lolalove_59:

(Start: 8 @56370 has 40 MA's), (12, 56343), (13, 56340), (19, 56301), (42, 56196), (44, 56169), (47, 56157), (51, 56139), (53, 56130),

Gene: Magpie_57 Start: 56295, Stop: 56023, Start Num: 8

Candidate Starts for Magpie_57:

(Start: 8 @56295 has 40 MA's), (12, 56268), (13, 56265), (19, 56226), (42, 56121), (44, 56094), (47, 56082), (51, 56064), (53, 56055),

Gene: Mithril_58 Start: 56502, Stop: 56230, Start Num: 8

Candidate Starts for Mithril_58:

(Start: 8 @56502 has 40 MA's), (12, 56475), (13, 56472), (19, 56433), (42, 56328), (44, 56301), (47, 56289), (51, 56271), (53, 56262),

Gene: Mudslide_58 Start: 56635, Stop: 56363, Start Num: 8

Candidate Starts for Mudslide_58:

(Start: 8 @56635 has 40 MA's), (12, 56608), (13, 56605), (19, 56566), (42, 56461), (44, 56434), (47, 56422), (51, 56404), (53, 56395), (56, 56380),

Gene: Mysterious_61 Start: 56569, Stop: 56225, Start Num: 8

Candidate Starts for Mysterious_61:

(Start: 8 @56569 has 40 MA's), (12, 56542), (19, 56500), (35, 56422), (42, 56374), (56, 56284), (63, 56236),

Gene: Nanao_57 Start: 55329, Stop: 55057, Start Num: 8

Candidate Starts for Nanao_57:

(Start: 8 @55329 has 40 MA's), (12, 55302), (13, 55299), (19, 55260), (42, 55155), (44, 55128), (47, 55116), (51, 55098), (53, 55089),

Gene: Nangang_63 Start: 56756, Stop: 56421, Start Num: 9

Candidate Starts for Nangang_63:

(9, 56756), (12, 56732), (13, 56729), (14, 56723), (15, 56714), (42, 56570), (56, 56480), (61, 56450), (63, 56432),

Gene: Nehemiah_62 Start: 56572, Stop: 56228, Start Num: 8

Candidate Starts for Nehemiah_62:

(Start: 8 @56572 has 40 MA's), (12, 56545), (19, 56503), (35, 56425), (42, 56377), (56, 56287), (63, 56239),

Gene: Nigel_58 Start: 55443, Stop: 55117, Start Num: 8

Candidate Starts for Nigel_58:

(Start: 8 @55443 has 40 MA's), (12, 55416), (19, 55374), (27, 55317), (34, 55272), (47, 55182), (52, 55158),

Gene: Phelemich_61 Start: 56567, Stop: 56223, Start Num: 8

Candidate Starts for Phelemich_61:

(Start: 8 @56567 has 40 MA's), (12, 56540), (17, 56510), (19, 56498), (32, 56423), (35, 56420), (42, 56372), (56, 56282), (63, 56234),

Gene: Poster_57 Start: 55330, Stop: 55058, Start Num: 8

Candidate Starts for Poster_57:

(Start: 8 @55330 has 40 MA's), (12, 55303), (13, 55300), (19, 55261), (42, 55156), (44, 55129), (47, 55117), (51, 55099), (53, 55090),

Gene: Prince_58 Start: 56548, Stop: 56276, Start Num: 8

Candidate Starts for Prince_58:

(Start: 8 @56548 has 40 MA's), (12, 56521), (13, 56518), (19, 56479), (42, 56374), (44, 56347), (47, 56335), (51, 56317), (53, 56308), (56, 56293),

Gene: QueenPie_56 Start: 56063, Stop: 55791, Start Num: 8

Candidate Starts for QueenPie_56:

(Start: 8 @56063 has 40 MA's), (12, 56036), (19, 55994), (42, 55889), (44, 55862), (47, 55850), (51, 55832), (53, 55823),

Gene: Quesadilla_63 Start: 56737, Stop: 56441, Start Num: 10

Candidate Starts for Quesadilla_63:

(Start: 10 @56737 has 1 MA's), (45, 56509), (55, 56458), (59, 56449),

Gene: RawrgerThat_59 Start: 56388, Stop: 56116, Start Num: 8

Candidate Starts for RawrgerThat_59:

(Start: 8 @56388 has 40 MA's), (12, 56361), (13, 56358), (19, 56319), (42, 56214), (44, 56187), (47, 56175), (51, 56157), (53, 56148),

Gene: Reccee_64 Start: 56805, Stop: 56464, Start Num: 8

Candidate Starts for Reccee_64:

(Start: 8 @56805 has 40 MA's), (12, 56778), (15, 56760), (24, 56694), (35, 56661), (42, 56613), (56, 56523), (61, 56493), (63, 56475),

Gene: Renkei_57 Start: 55343, Stop: 55071, Start Num: 8

Candidate Starts for Renkei_57:

(Start: 8 @55343 has 40 MA's), (12, 55316), (13, 55313), (19, 55274), (42, 55169), (44, 55142), (47, 55130), (51, 55112),

Gene: Reprobate_62 Start: 56572, Stop: 56228, Start Num: 8

Candidate Starts for Reprobate_62:

(Start: 8 @56572 has 40 MA's), (12, 56545), (17, 56515), (19, 56503), (32, 56428), (35, 56425), (42, 56377), (56, 56287), (63, 56239),

Gene: Rich_62 Start: 57709, Stop: 57323, Start Num: 8

Candidate Starts for Rich_62:

(Start: 8 @57709 has 40 MA's), (12, 57682), (13, 57679), (15, 57664), (24, 57598), (36, 57526), (37, 57523), (42, 57472), (56, 57382), (61, 57352), (62, 57340), (63, 57334),

Gene: Rita130_63 Start: 56618, Stop: 56277, Start Num: 8

Candidate Starts for Rita130_63:

(Start: 8 @56618 has 40 MA's), (12, 56591), (15, 56573), (24, 56507), (35, 56474), (42, 56426), (56, 56336), (61, 56306), (63, 56288),

Gene: Serendipitous_62 Start: 56107, Stop: 55766, Start Num: 8

Candidate Starts for Serendipitous_62:

(Start: 8 @56107 has 40 MA's), (12, 56080), (13, 56077), (42, 55915), (56, 55825), (61, 55795), (62, 55783),

Gene: Shenyu_63 Start: 56833, Stop: 56498, Start Num: 9

Candidate Starts for Shenyu_63:

(9, 56833), (12, 56809), (13, 56806), (14, 56800), (15, 56791), (42, 56647), (56, 56557), (61, 56527), (63, 56509),

Gene: SirJeffery_63 Start: 56753, Stop: 56412, Start Num: 8

Candidate Starts for SirJeffery_63:

(Start: 8 @56753 has 40 MA's), (12, 56726), (15, 56708), (24, 56642), (35, 56609), (42, 56561), (56, 56471), (61, 56441), (63, 56423),

Gene: Stinger_59 Start: 55258, Stop: 54989, Start Num: 8

Candidate Starts for Stinger_59:

(Start: 8 @55258 has 40 MA's), (12, 55231), (19, 55189), (25, 55144), (40, 55099), (42, 55075), (44, 55048), (47, 55036), (54, 55003),

Gene: StinkyVeggy_63 Start: 56576, Stop: 56241, Start Num: 9

Candidate Starts for StinkyVeggy_63:

(9, 56576), (12, 56552), (13, 56549), (14, 56543), (15, 56534), (42, 56390), (56, 56300), (61, 56270), (63, 56252),

Gene: Suigeneris_65 Start: 56871, Stop: 56530, Start Num: 8

Candidate Starts for Suigeneris_65:

(Start: 8 @56871 has 40 MA's), (12, 56844), (15, 56826), (24, 56760), (35, 56727), (42, 56679), (56, 56589), (61, 56559), (63, 56541),

Gene: Vincenzo_61 Start: 57535, Stop: 57200, Start Num: 8

Candidate Starts for Vincenzo_61:

(Start: 8 @57535 has 40 MA's), (12, 57508), (19, 57466), (23, 57421), (29, 57391), (33, 57367), (34, 57364), (53, 57247), (60, 57220),

Gene: VioletZ_60 Start: 56461, Stop: 56189, Start Num: 8

Candidate Starts for VioletZ_60:

(Start: 8 @56461 has 40 MA's), (12, 56434), (13, 56431), (19, 56392), (42, 56287), (44, 56260), (47, 56248), (51, 56230), (53, 56221),

Gene: Waleliano_58 Start: 56402, Stop: 56130, Start Num: 8

Candidate Starts for Waleliano_58:

(Start: 8 @56402 has 40 MA's), (12, 56375), (13, 56372), (19, 56333), (42, 56228), (44, 56201), (47, 56189), (51, 56171), (53, 56162),

Gene: Xincheng_59 Start: 57567, Stop: 57295, Start Num: 8

Candidate Starts for Xincheng_59:

(Start: 8 @57567 has 40 MA's), (12, 57540), (19, 57498), (42, 57393), (44, 57366), (47, 57354), (53, 57327),

Gene: Zemanar_59 Start: 56234, Stop: 55962, Start Num: 8

Candidate Starts for Zemanar_59:

(Start: 8 @56234 has 40 MA's), (12, 56207), (13, 56204), (19, 56165), (42, 56060), (44, 56033), (47, 56021), (51, 56003), (53, 55994),