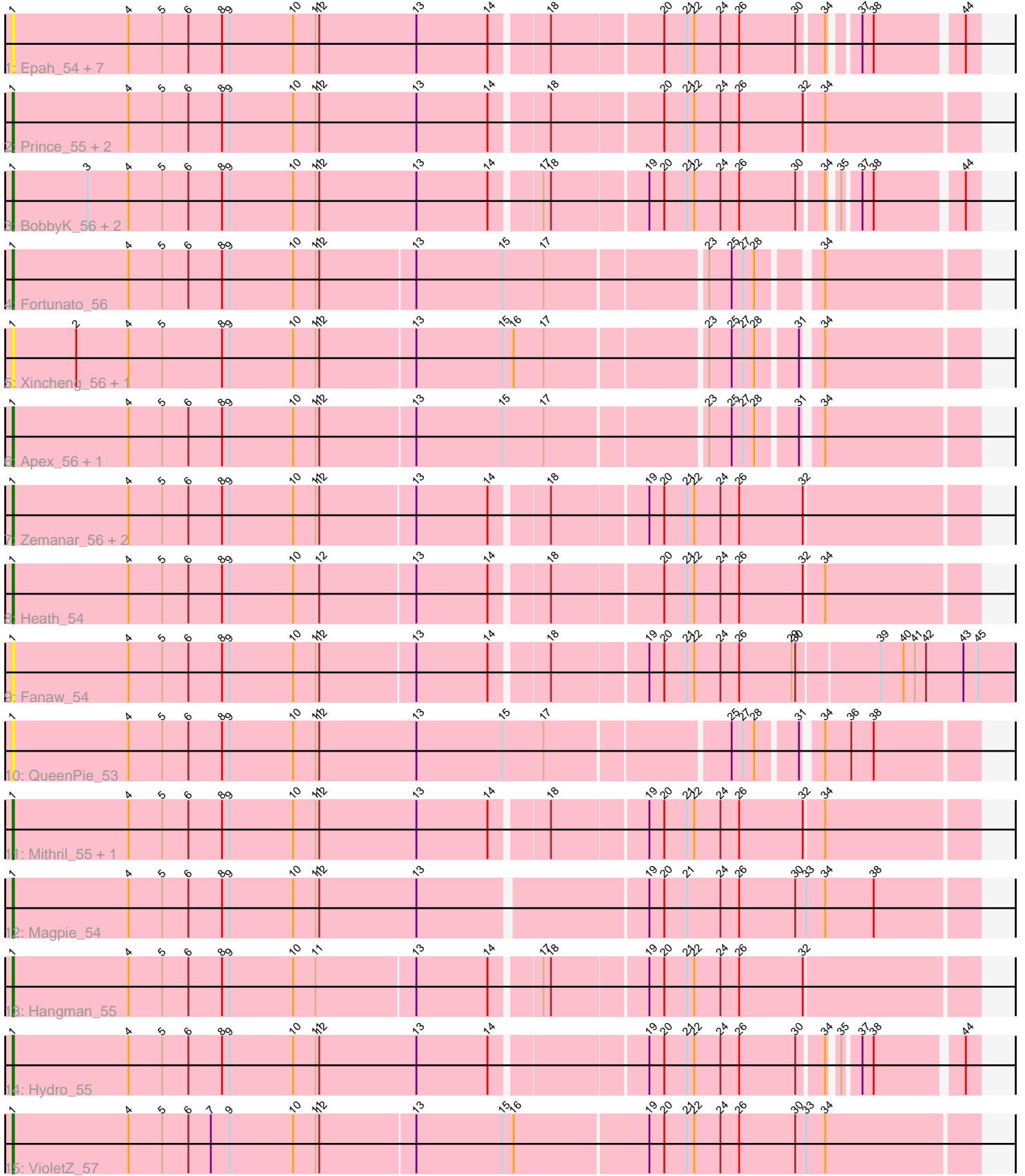


Pham 194234



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 194234 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194234 has 31 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Epah_54, Hally898_54, Antihero_54, GinPorsche_54, Poster_54, Ahwei_54, Nanao_54, Lambano_54
- Track 2 : Prince_55, ChrisnMich_55, Mudslide_55
- Track 3 : BobbyK_56, Frederick_56, Lolalove_56
- Track 4 : Fortunato_56
- Track 5 : Xincheng_56, JaguarMi_57
- Track 6 : Apex_56, Austelle_56
- Track 7 : Zemanar_56, Waleliano_55, BrownCNA_57
- Track 8 : Heath_54
- Track 9 : Fanaw_54
- Track 10 : QueenPie_53
- Track 11 : Mithril_55, RawrgerThat_56
- Track 12 : Magpie_54
- Track 13 : Hangman_55
- Track 14 : Hydro_55
- Track 15 : VioletZ_57

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

The start number called the most often in the published annotations is 1, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ahwei_54, Antihero_54, Apex_56, Austelle_56, BobbyK_56, BrownCNA_57, ChrisnMich_55, Epah_54, Fanaw_54, Fortunato_56, Frederick_56, GinPorsche_54, Hally898_54, Hangman_55, Heath_54, Hydro_55, JaguarMi_57, Lambano_54, Lolalove_56, Magpie_54, Mithril_55, Mudslide_55, Nanao_54, Poster_54, Prince_55, QueenPie_53, RawrgerThat_56, VioletZ_57, Waleliano_55, Xincheng_56, Zemanar_56,

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

-

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

•

Summary by start number:

Start 1:

- Found in 31 of 31 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ahwei_54 (B4), Antihero_54 (B4), Apex_56 (B4), Austelle_56 (B4), BobbyK_56 (B4), BrownCNA_57 (B4), ChrisnMich_55 (B4), Epah_54 (B4), Fanaw_54 (B4), Fortunato_56 (B4), Frederick_56 (B4), GinPorsche_54 (B4), Hally898_54 (B4), Hangman_55 (B4), Heath_54 (B4), Hydro_55 (B4), JaguarMi_57 (B4), Lambano_54 (B4), Lolalove_56 (B4), Magpie_54 (B4), Mithril_55 (B4), Mudslide_55 (B4), Nanao_54 (B4), Poster_54 (B4), Prince_55 (B4), QueenPie_53 (B4), RawrgerThat_56 (B4), VioletZ_57 (B4), Waleliano_55 (B4), Xincheng_56 (B4), Zemanar_56 (B4),

Summary by clusters:

There is one cluster represented in this pham: B4

Info for manual annotations of cluster B4:

- Start number 1 was manually annotated 19 times for cluster B4.

Gene Information:

Gene: Ahwei_54 Start: 54288, Stop: 53557, Start Num: 1

Candidate Starts for Ahwei_54:

(Start: 1 @54288 has 19 MA's), (4, 54195), (5, 54168), (6, 54147), (8, 54120), (9, 54114), (10, 54063), (11, 54045), (12, 54042), (13, 53964), (14, 53907), (18, 53865), (20, 53781), (21, 53763), (22, 53757), (24, 53736), (26, 53721), (30, 53676), (34, 53658), (37, 53640), (38, 53631), (44, 53568),

Gene: Antihero_54 Start: 54286, Stop: 53555, Start Num: 1

Candidate Starts for Antihero_54:

(Start: 1 @54286 has 19 MA's), (4, 54193), (5, 54166), (6, 54145), (8, 54118), (9, 54112), (10, 54061), (11, 54043), (12, 54040), (13, 53962), (14, 53905), (18, 53863), (20, 53779), (21, 53761), (22, 53755), (24, 53734), (26, 53719), (30, 53674), (34, 53656), (37, 53638), (38, 53629), (44, 53566),

Gene: Apex_56 Start: 55508, Stop: 54768, Start Num: 1

Candidate Starts for Apex_56:

(Start: 1 @55508 has 19 MA's), (4, 55415), (5, 55388), (6, 55367), (8, 55340), (9, 55334), (10, 55283), (11, 55265), (12, 55262), (13, 55187), (15, 55118), (17, 55085), (23, 54965), (25, 54947), (27, 54938), (28, 54929), (31, 54899), (34, 54887),

Gene: Austelle_56 Start: 55961, Stop: 55221, Start Num: 1

Candidate Starts for Austelle_56:

(Start: 1 @55961 has 19 MA's), (4, 55868), (5, 55841), (6, 55820), (8, 55793), (9, 55787), (10, 55736), (11, 55718), (12, 55715), (13, 55640), (15, 55571), (17, 55538), (23, 55418), (25, 55400), (27, 55391), (28, 55382), (31, 55352), (34, 55340),

Gene: BobbyK_56 Start: 55271, Stop: 54540, Start Num: 1

Candidate Starts for BobbyK_56:

(Start: 1 @55271 has 19 MA's), (3, 55211), (4, 55178), (5, 55151), (6, 55130), (8, 55103), (9, 55097), (10, 55046), (11, 55028), (12, 55025), (13, 54947), (14, 54890), (17, 54854), (18, 54848), (19, 54776), (20, 54764), (21, 54746), (22, 54740), (24, 54719), (26, 54704), (30, 54659), (34, 54641), (35, 54635), (37, 54623), (38, 54614), (44, 54551),

Gene: BrownCNA_57 Start: 55628, Stop: 54879, Start Num: 1

Candidate Starts for BrownCNA_57:

(Start: 1 @55628 has 19 MA's), (4, 55535), (5, 55508), (6, 55487), (8, 55460), (9, 55454), (10, 55403), (11, 55385), (12, 55382), (13, 55307), (14, 55250), (18, 55208), (19, 55136), (20, 55124), (21, 55106), (22, 55100), (24, 55079), (26, 55064), (32, 55013),

Gene: ChrisnMich_55 Start: 54300, Stop: 53548, Start Num: 1

Candidate Starts for ChrisnMich_55:

(Start: 1 @54300 has 19 MA's), (4, 54207), (5, 54180), (6, 54159), (8, 54132), (9, 54126), (10, 54075), (11, 54057), (12, 54054), (13, 53976), (14, 53919), (18, 53877), (20, 53793), (21, 53775), (22, 53769), (24, 53748), (26, 53733), (32, 53682), (34, 53667),

Gene: Epah_54 Start: 54286, Stop: 53555, Start Num: 1

Candidate Starts for Epah_54:

(Start: 1 @54286 has 19 MA's), (4, 54193), (5, 54166), (6, 54145), (8, 54118), (9, 54112), (10, 54061), (11, 54043), (12, 54040), (13, 53962), (14, 53905), (18, 53863), (20, 53779), (21, 53761), (22, 53755), (24, 53734), (26, 53719), (30, 53674), (34, 53656), (37, 53638), (38, 53629), (44, 53566),

Gene: Fanaw_54 Start: 55177, Stop: 54308, Start Num: 1

Candidate Starts for Fanaw_54:

(Start: 1 @55177 has 19 MA's), (4, 55084), (5, 55057), (6, 55036), (8, 55009), (9, 55003), (10, 54952), (11, 54934), (12, 54931), (13, 54856), (14, 54799), (18, 54757), (19, 54685), (20, 54673), (21, 54655), (22, 54649), (24, 54628), (26, 54613), (29, 54571), (30, 54568), (39, 54505), (40, 54487), (41, 54478), (42, 54469), (43, 54439), (45, 54427),

Gene: Fortunato_56 Start: 55317, Stop: 54577, Start Num: 1

Candidate Starts for Fortunato_56:

(Start: 1 @55317 has 19 MA's), (4, 55224), (5, 55197), (6, 55176), (8, 55149), (9, 55143), (10, 55092), (11, 55074), (12, 55071), (13, 54996), (15, 54927), (17, 54894), (23, 54774), (25, 54756), (27, 54747), (28, 54738), (34, 54696),

Gene: Frederick_56 Start: 55214, Stop: 54483, Start Num: 1

Candidate Starts for Frederick_56:

(Start: 1 @55214 has 19 MA's), (3, 55154), (4, 55121), (5, 55094), (6, 55073), (8, 55046), (9, 55040), (10, 54989), (11, 54971), (12, 54968), (13, 54890), (14, 54833), (17, 54797), (18, 54791), (19, 54719), (20, 54707), (21, 54689), (22, 54683), (24, 54662), (26, 54647), (30, 54602), (34, 54584), (35, 54578), (37, 54566), (38, 54557), (44, 54494),

Gene: GinPorsche_54 Start: 54286, Stop: 53555, Start Num: 1

Candidate Starts for GinPorsche_54:

(Start: 1 @54286 has 19 MA's), (4, 54193), (5, 54166), (6, 54145), (8, 54118), (9, 54112), (10, 54061), (11, 54043), (12, 54040), (13, 53962), (14, 53905), (18, 53863), (20, 53779), (21, 53761), (22, 53755), (24, 53734), (26, 53719), (30, 53674), (34, 53656), (37, 53638), (38, 53629), (44, 53566),

Gene: Hally898_54 Start: 54301, Stop: 53570, Start Num: 1

Candidate Starts for Hally898_54:

(Start: 1 @54301 has 19 MA's), (4, 54208), (5, 54181), (6, 54160), (8, 54133), (9, 54127), (10, 54076), (11, 54058), (12, 54055), (13, 53977), (14, 53920), (18, 53878), (20, 53794), (21, 53776), (22, 53770), (24, 53749), (26, 53734), (30, 53689), (34, 53671), (37, 53653), (38, 53644), (44, 53581),

Gene: Hangman_55 Start: 55371, Stop: 54622, Start Num: 1

Candidate Starts for Hangman_55:

(Start: 1 @55371 has 19 MA's), (4, 55278), (5, 55251), (6, 55230), (8, 55203), (9, 55197), (10, 55146), (11, 55128), (13, 55050), (14, 54993), (17, 54957), (18, 54951), (19, 54879), (20, 54867), (21, 54849), (22, 54843), (24, 54822), (26, 54807), (32, 54756),

Gene: Heath_54 Start: 54997, Stop: 54248, Start Num: 1

Candidate Starts for Heath_54:

(Start: 1 @54997 has 19 MA's), (4, 54904), (5, 54877), (6, 54856), (8, 54829), (9, 54823), (10, 54772), (12, 54751), (13, 54676), (14, 54619), (18, 54577), (20, 54493), (21, 54475), (22, 54469), (24, 54448), (26, 54433), (32, 54382), (34, 54367),

Gene: Hydro_55 Start: 55348, Stop: 54617, Start Num: 1

Candidate Starts for Hydro_55:

(Start: 1 @55348 has 19 MA's), (4, 55255), (5, 55228), (6, 55207), (8, 55180), (9, 55174), (10, 55123), (11, 55105), (12, 55102), (13, 55024), (14, 54967), (19, 54853), (20, 54841), (21, 54823), (22, 54817), (24, 54796), (26, 54781), (30, 54736), (34, 54718), (35, 54712), (37, 54700), (38, 54691), (44, 54628),

Gene: JaguarMi_57 Start: 56412, Stop: 55672, Start Num: 1

Candidate Starts for JaguarMi_57:

(Start: 1 @56412 has 19 MA's), (2, 56361), (4, 56319), (5, 56292), (8, 56244), (9, 56238), (10, 56187), (11, 56169), (12, 56166), (13, 56091), (15, 56022), (16, 56013), (17, 55989), (23, 55869), (25, 55851), (27, 55842), (28, 55833), (31, 55803), (34, 55791),

Gene: Lambano_54 Start: 54301, Stop: 53570, Start Num: 1

Candidate Starts for Lambano_54:

(Start: 1 @54301 has 19 MA's), (4, 54208), (5, 54181), (6, 54160), (8, 54133), (9, 54127), (10, 54076), (11, 54058), (12, 54055), (13, 53977), (14, 53920), (18, 53878), (20, 53794), (21, 53776), (22, 53770), (24, 53749), (26, 53734), (30, 53689), (34, 53671), (37, 53653), (38, 53644), (44, 53581),

Gene: Lolalove_56 Start: 55331, Stop: 54600, Start Num: 1

Candidate Starts for Lolalove_56:

(Start: 1 @55331 has 19 MA's), (3, 55271), (4, 55238), (5, 55211), (6, 55190), (8, 55163), (9, 55157), (10, 55106), (11, 55088), (12, 55085), (13, 55007), (14, 54950), (17, 54914), (18, 54908), (19, 54836), (20, 54824), (21, 54806), (22, 54800), (24, 54779), (26, 54764), (30, 54719), (34, 54701), (35, 54695), (37, 54683), (38, 54674), (44, 54611),

Gene: Magpie_54 Start: 55250, Stop: 54492, Start Num: 1

Candidate Starts for Magpie_54:

(Start: 1 @55250 has 19 MA's), (4, 55157), (5, 55130), (6, 55109), (8, 55082), (9, 55076), (10, 55025), (11, 55007), (12, 55004), (13, 54926), (19, 54752), (20, 54740), (21, 54722), (24, 54695), (26, 54680), (30, 54635), (33, 54626), (34, 54611), (38, 54572),

Gene: Mithril_55 Start: 55326, Stop: 54574, Start Num: 1

Candidate Starts for Mithril_55:

(Start: 1 @55326 has 19 MA's), (4, 55233), (5, 55206), (6, 55185), (8, 55158), (9, 55152), (10, 55101), (11, 55083), (12, 55080), (13, 55002), (14, 54945), (18, 54903), (19, 54831), (20, 54819), (21, 54801), (22, 54795), (24, 54774), (26, 54759), (32, 54708), (34, 54693),

Gene: Mudslide_55 Start: 55593, Stop: 54841, Start Num: 1

Candidate Starts for Mudslide_55:

(Start: 1 @55593 has 19 MA's), (4, 55500), (5, 55473), (6, 55452), (8, 55425), (9, 55419), (10, 55368), (11, 55350), (12, 55347), (13, 55269), (14, 55212), (18, 55170), (20, 55086), (21, 55068), (22, 55062), (24, 55041), (26, 55026), (32, 54975), (34, 54960),

Gene: Nanao_54 Start: 54291, Stop: 53560, Start Num: 1

Candidate Starts for Nanao_54:

(Start: 1 @54291 has 19 MA's), (4, 54198), (5, 54171), (6, 54150), (8, 54123), (9, 54117), (10, 54066), (11, 54048), (12, 54045), (13, 53967), (14, 53910), (18, 53868), (20, 53784), (21, 53766), (22, 53760), (24, 53739), (26, 53724), (30, 53679), (34, 53661), (37, 53643), (38, 53634), (44, 53571),

Gene: Poster_54 Start: 54292, Stop: 53561, Start Num: 1

Candidate Starts for Poster_54:

(Start: 1 @54292 has 19 MA's), (4, 54199), (5, 54172), (6, 54151), (8, 54124), (9, 54118), (10, 54067), (11, 54049), (12, 54046), (13, 53968), (14, 53911), (18, 53869), (20, 53785), (21, 53767), (22, 53761), (24, 53740), (26, 53725), (30, 53680), (34, 53662), (37, 53644), (38, 53635), (44, 53572),

Gene: Prince_55 Start: 55506, Stop: 54754, Start Num: 1

Candidate Starts for Prince_55:

(Start: 1 @55506 has 19 MA's), (4, 55413), (5, 55386), (6, 55365), (8, 55338), (9, 55332), (10, 55281), (11, 55263), (12, 55260), (13, 55182), (14, 55125), (18, 55083), (20, 54999), (21, 54981), (22, 54975), (24, 54954), (26, 54939), (32, 54888), (34, 54873),

Gene: QueenPie_53 Start: 55010, Stop: 54267, Start Num: 1

Candidate Starts for QueenPie_53:

(Start: 1 @55010 has 19 MA's), (4, 54917), (5, 54890), (6, 54869), (8, 54842), (9, 54836), (10, 54785), (11, 54767), (12, 54764), (13, 54686), (15, 54617), (17, 54584), (25, 54446), (27, 54437), (28, 54428), (31, 54398), (34, 54386), (36, 54365), (38, 54347),

Gene: RawrgerThat_56 Start: 55346, Stop: 54594, Start Num: 1

Candidate Starts for RawrgerThat_56:

(Start: 1 @55346 has 19 MA's), (4, 55253), (5, 55226), (6, 55205), (8, 55178), (9, 55172), (10, 55121), (11, 55103), (12, 55100), (13, 55022), (14, 54965), (18, 54923), (19, 54851), (20, 54839), (21, 54821), (22, 54815), (24, 54794), (26, 54779), (32, 54728), (34, 54713),

Gene: VioletZ_57 Start: 55422, Stop: 54658, Start Num: 1

Candidate Starts for VioletZ_57:

(Start: 1 @55422 has 19 MA's), (4, 55329), (5, 55302), (6, 55281), (7, 55263), (9, 55248), (10, 55197), (11, 55179), (12, 55176), (13, 55101), (15, 55032), (16, 55023), (19, 54918), (20, 54906), (21, 54888), (22, 54882), (24, 54861), (26, 54846), (30, 54801), (33, 54792), (34, 54777),

Gene: Waleliano_55 Start: 55360, Stop: 54611, Start Num: 1

Candidate Starts for Waleliano_55:

(Start: 1 @55360 has 19 MA's), (4, 55267), (5, 55240), (6, 55219), (8, 55192), (9, 55186), (10, 55135), (11, 55117), (12, 55114), (13, 55039), (14, 54982), (18, 54940), (19, 54868), (20, 54856), (21, 54838), (22, 54832), (24, 54811), (26, 54796), (32, 54745),

Gene: Xincheng_56 Start: 56385, Stop: 55645, Start Num: 1

Candidate Starts for Xincheng_56:

(Start: 1 @56385 has 19 MA's), (2, 56334), (4, 56292), (5, 56265), (8, 56217), (9, 56211), (10, 56160), (11, 56142), (12, 56139), (13, 56064), (15, 55995), (16, 55986), (17, 55962), (23, 55842), (25, 55824), (27, 55815), (28, 55806), (31, 55776), (34, 55764),

Gene: Zemanar_56 Start: 55192, Stop: 54443, Start Num: 1

Candidate Starts for Zemanar_56:

(Start: 1 @55192 has 19 MA's), (4, 55099), (5, 55072), (6, 55051), (8, 55024), (9, 55018), (10, 54967), (11, 54949), (12, 54946), (13, 54871), (14, 54814), (18, 54772), (19, 54700), (20, 54688), (21, 54670), (22, 54664), (24, 54643), (26, 54628), (32, 54577),