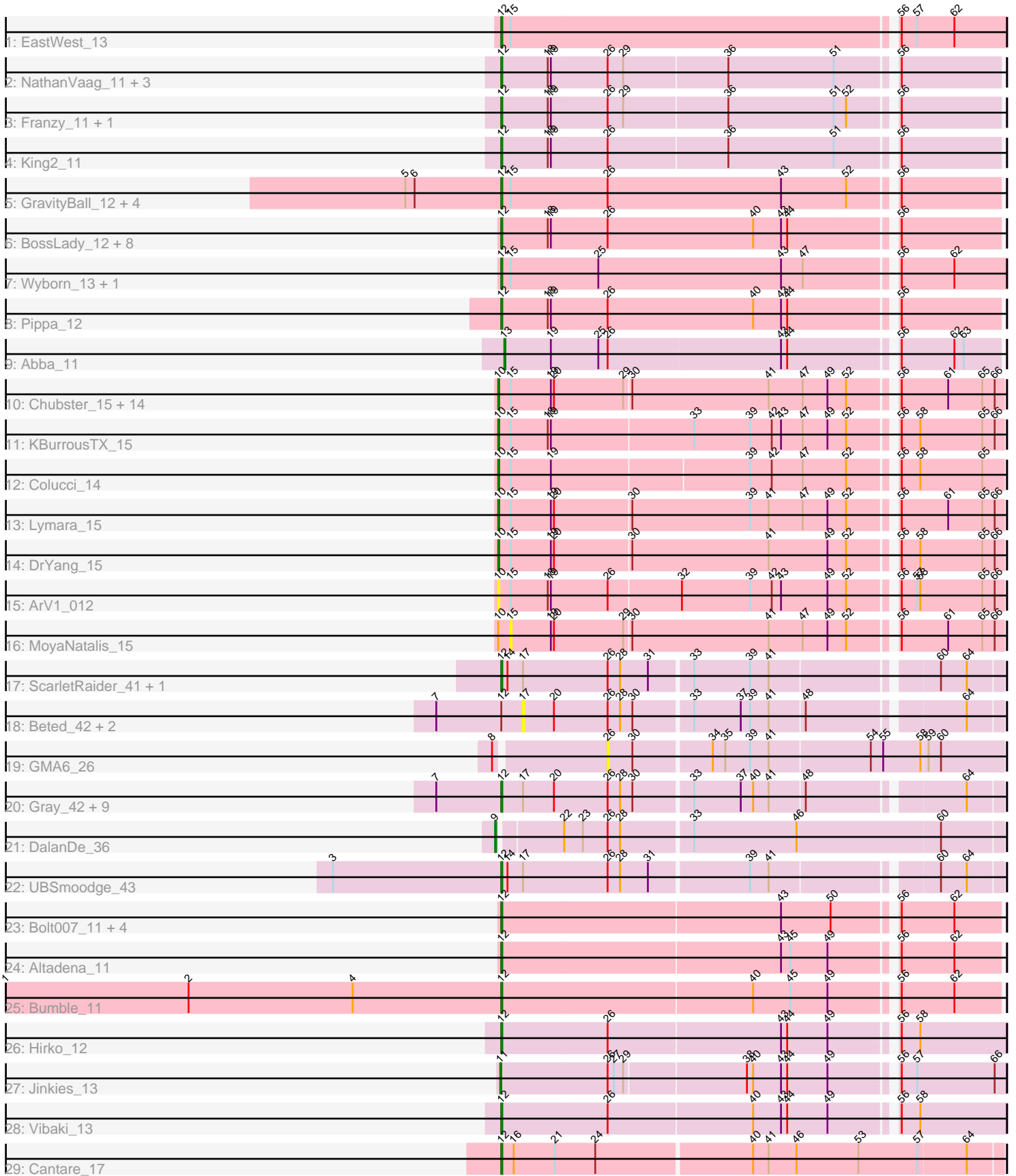


Pham 195576



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 195576 Report

This analysis was run 12/09/24 on database version 580.

Pham number 195576 has 76 members, 12 are drafts.

Phages represented in each track:

- Track 1 : EastWest_13
- Track 2 : NathanVaag_11, Piccoletto_11, Jawnski_11, Beans_11
- Track 3 : Franzy_11, Brent_11
- Track 4 : King2_11
- Track 5 : GravityBall_12, LeeroyJ_12, StevieBAY_12, Timinator_12, BarretLemon_12
- Track 6 : BossLady_12, Jordan_12, Grekaycon_12, Shade_12, Zartrosa_12, Martha_12, Sonny_12, TaeYoung_12, JKerns_12
- Track 7 : Wyborn_13, Sicarius2_13
- Track 8 : Pippa_12
- Track 9 : Abba_11
- Track 10 : Chubster_15, HumptyDumpty_15, RosiePosie_15, Chipper1996_150, JaNo_15, EdgarPoe_15, Linus_15, Tophat_15, Mordred_15, JayCookie_15, Chocolat_15, Scavito_15, Kabreeze_15, Conboy_15, PrincessTrina_15
- Track 11 : KBurrousTX_15
- Track 12 : Colucci_14
- Track 13 : Lymara_15
- Track 14 : DrYang_15
- Track 15 : ArV1_012
- Track 16 : MoyaNatalis_15
- Track 17 : ScarletRaider_41, FlyingTortilla_41
- Track 18 : Beted_42, Lenoshki_42, Oogie_42
- Track 19 : GMA6_26
- Track 20 : Gray_42, Chidiebere_42, ChisanaKitsune_38, Schomber_41, Hanem_42, Twin_40, Pakusa_40, Aloki_40, Kabocha_43, MintFritos_40
- Track 21 : DalanDe_36
- Track 22 : UBSmoodge_43
- Track 23 : Bolt007_11, Lilmac1015_11, Prairie_11, Klevey_11, CalWood4100_11
- Track 24 : Altadena_11
- Track 25 : Bumble_11
- Track 26 : Hirko_12
- Track 27 : Jinkies_13
- Track 28 : Vibaki_13
- Track 29 : Cantare_17

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

The start number called the most often in the published annotations is 12, it was called in 42 of the 64 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok_i_40, Altadena_11, BarretLemon_12, Beans_11, Bolt007_11, BossLady_12, Brent_11, Bumble_11, CalWood4100_11, Cantare_17, Chidiebere_42, ChisanaKitsune_38, EastWest_13, FlyingTortilla_41, Franzy_11, GravityBall_12, Gray_42, Grekaycon_12, Hanem_42, Hirko_12, JKerns_12, Jawnski_11, Jordan_12, Kabocha_43, King2_11, Klevey_11, LeeroyJ_12, Lilmac1015_11, Martha_12, MintFritos_40, NathanVaag_11, Pakusa_40, Piccoletto_11, Pippa_12, Prairie_11, ScarletRaider_41, Schomber_41, Shade_12, Sicarius2_13, Sonny_12, StevieBAY_12, TaeYoung_12, Timinator_12, Twin_40, UBSmoodge_43, Vibaki_13, Wyborn_13, Zartrosa_12,

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

- Beted_42, Lenoshki_42, Oogie_42,

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

- Abba_11, ArV1_012, Chipper1996_150, Chocolat_15, Chubster_15, Colucci_14, Conboy_15, DalanDe_36, DrYang_15, EdgarPoe_15, GMA6_26, HumptyDumpty_15, JaNo_15, JayCookie_15, Jinkies_13, KBurrousTX_15, Kabreeze_15, Linus_15, Lymara_15, Mordred_15, MoyaNatalis_15, PrincessTrina_15, RosiePosie_15, Scavito_15, Tophat_15,

Summary by start number:

Start 9:

- Found in 1 of 76 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 64
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DalanDe_36 (DQ),

Start 10:

- Found in 21 of 76 (27.6%) of genes in pham
- Manual Annotations of this start: 19 of 64
- Called 95.2% of time when present
- Phage (with cluster) where this start called: ArV1_012 (AR), Chipper1996_150 (AR), Chocolat_15 (AR), Chubster_15 (AR), Colucci_14 (AR), Conboy_15 (AR), DrYang_15 (AR), EdgarPoe_15 (AR), HumptyDumpty_15 (AR), JaNo_15 (AR), JayCookie_15 (AR), KBurrousTX_15 (AR), Kabreeze_15 (AR), Linus_15 (AR), Lymara_15 (AR), Mordred_15 (AR), PrincessTrina_15 (AR), RosiePosie_15 (AR), Scavito_15 (AR), Tophat_15 (AR),

Start 11:

- Found in 1 of 76 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 64
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jinkies_13 (FL),

Start 12:

- Found in 51 of 76 (67.1%) of genes in pham
- Manual Annotations of this start: 42 of 64
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Alok_i_40 (DQ), Altadena_11 (FH), BarretLemon_12 (AO2), Beans_11 (AO1), Bolt007_11 (FH), BossLady_12 (AO2), Brent_11 (AO1), Bumble_11 (FH), CalWood4100_11 (FH), Cantare_17 (singleton), Chidiebere_42 (DQ), ChisanaKitsune_38 (DQ), EastWest_13 (AO), FlyingTortilla_41 (DQ), Franzy_11 (AO1), GravityBall_12 (AO2), Gray_42 (DQ), Grekaycon_12 (AO2), Hanem_42 (DQ), Hirko_12 (FL), JKerns_12 (AO2), Jawnski_11 (AO1), Jordan_12 (AO2), Kabocha_43 (DQ), King2_11 (AO1), Klevey_11 (FH), LeeroyJ_12 (AO2), Lilmac1015_11 (FH), Martha_12 (AO2), MintFritos_40 (DQ), NathanVaag_11 (AO1), Pakusa_40 (DQ), Piccoletto_11 (AO1), Pippa_12 (AO2), Prairie_11 (FH), ScarletRaider_41 (DQ), Schomber_41 (DQ), Shade_12 (AO2), Sicarius2_13 (AO2), Sonny_12 (AO2), StevieBAY_12 (AO2), TaeYoung_12 (AO2), Timinator_12 (AO2), Twin_40 (DQ), UBSmoodge_43 (DQ), Vibaki_13 (FL), Wyborn_13 (AO2), Zartrosa_12 (AO2),

Start 13:

- Found in 1 of 76 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 64
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abba_11 (AO3),

Start 15:

- Found in 29 of 76 (38.2%) of genes in pham
- No Manual Annotations of this start.
- Called 3.4% of time when present
- Phage (with cluster) where this start called: MoyaNatalis_15 (AR),

Start 17:

- Found in 16 of 76 (21.1%) of genes in pham
- No Manual Annotations of this start.
- Called 18.8% of time when present
- Phage (with cluster) where this start called: Beted_42 (DQ), Lenoshki_42 (DQ), Oogie_42 (DQ),

Start 26:

- Found in 45 of 76 (59.2%) of genes in pham
- No Manual Annotations of this start.
- Called 2.2% of time when present
- Phage (with cluster) where this start called: GMA6_26 (DQ),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, AO, AR, AO3, AO2, AO1, FH, FL, DQ,

Info for manual annotations of cluster AO:

- Start number 12 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 12 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 12 was manually annotated 16 times for cluster AO2.

Info for manual annotations of cluster AO3:

- Start number 13 was manually annotated 1 time for cluster AO3.

Info for manual annotations of cluster AR:

- Start number 10 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster DQ:

- Start number 9 was manually annotated 1 time for cluster DQ.
- Start number 12 was manually annotated 9 times for cluster DQ.

Info for manual annotations of cluster FH:

- Start number 12 was manually annotated 6 times for cluster FH.

Info for manual annotations of cluster FL:

- Start number 11 was manually annotated 1 time for cluster FL.
- Start number 12 was manually annotated 2 times for cluster FL.

Gene Information:

Gene: Abba_11 Start: 9301, Stop: 9762, Start Num: 13

Candidate Starts for Abba_11:

(Start: 13 @9301 has 1 MA's), (19, 9346), (25, 9391), (26, 9400), (43, 9565), (44, 9571), (56, 9667), (62, 9718), (63, 9727),

Gene: Alok_40 Start: 29827, Stop: 30282, Start Num: 12

Candidate Starts for Alok_40:

(7, 29764), (Start: 12 @29827 has 42 MA's), (17, 29848), (20, 29878), (26, 29929), (28, 29941), (30, 29953), (33, 30007), (37, 30052), (40, 30064), (41, 30079), (48, 30112), (64, 30250),

Gene: Altadena_11 Start: 8980, Stop: 9444, Start Num: 12

Candidate Starts for Altadena_11:

(Start: 12 @8980 has 42 MA's), (43, 9247), (45, 9256), (49, 9292), (56, 9349), (62, 9400),

Gene: ArV1_012 Start: 9861, Stop: 10331, Start Num: 10

Candidate Starts for ArV1_012:

(Start: 10 @9861 has 19 MA's), (15, 9873), (18, 9909), (19, 9912), (26, 9966), (32, 10035), (39, 10101), (42, 10122), (43, 10131), (49, 10176), (52, 10194), (56, 10233), (57, 10248), (58, 10251), (65, 10311), (66, 10323),

Gene: BarretLemon_12 Start: 9514, Stop: 9981, Start Num: 12

Candidate Starts for BarretLemon_12:

(5, 9421), (6, 9430), (Start: 12 @9514 has 42 MA's), (15, 9523), (26, 9616), (43, 9784), (52, 9847), (56, 9886),

Gene: Beans_11 Start: 9204, Stop: 9668, Start Num: 12

Candidate Starts for Beans_11:

(Start: 12 @9204 has 42 MA's), (18, 9249), (19, 9252), (26, 9306), (29, 9321), (36, 9420), (51, 9522), (56, 9573),

Gene: Beted_42 Start: 31528, Stop: 31962, Start Num: 17

Candidate Starts for Beted_42:

(7, 31444), (Start: 12 @31507 has 42 MA's), (17, 31528), (20, 31558), (26, 31609), (28, 31621), (30, 31633), (33, 31687), (37, 31732), (39, 31741), (41, 31759), (48, 31792), (64, 31930),

Gene: Bolt007_11 Start: 8922, Stop: 9386, Start Num: 12

Candidate Starts for Bolt007_11:

(Start: 12 @8922 has 42 MA's), (43, 9189), (50, 9237), (56, 9291), (62, 9342),

Gene: BossLady_12 Start: 9517, Stop: 9984, Start Num: 12

Candidate Starts for BossLady_12:

(Start: 12 @9517 has 42 MA's), (18, 9562), (19, 9565), (26, 9619), (40, 9760), (43, 9787), (44, 9793), (56, 9889),

Gene: Brent_11 Start: 9186, Stop: 9650, Start Num: 12

Candidate Starts for Brent_11:

(Start: 12 @9186 has 42 MA's), (18, 9231), (19, 9234), (26, 9288), (29, 9303), (36, 9402), (51, 9504), (52, 9516), (56, 9555),

Gene: Bumble_11 Start: 8987, Stop: 9451, Start Num: 12

Candidate Starts for Bumble_11:

(1, 8507), (2, 8684), (4, 8843), (Start: 12 @8987 has 42 MA's), (40, 9227), (45, 9263), (49, 9299), (56, 9356), (62, 9407),

Gene: CalWood4100_11 Start: 8905, Stop: 9369, Start Num: 12

Candidate Starts for CalWood4100_11:

(Start: 12 @8905 has 42 MA's), (43, 9172), (50, 9220), (56, 9274), (62, 9325),

Gene: Cantare_17 Start: 16184, Stop: 16657, Start Num: 12

Candidate Starts for Cantare_17:

(Start: 12 @16184 has 42 MA's), (16, 16196), (21, 16235), (24, 16274), (40, 16421), (41, 16436), (46, 16463), (53, 16523), (57, 16580), (64, 16625),

Gene: Chidiebere_42 Start: 29827, Stop: 30282, Start Num: 12

Candidate Starts for Chidiebere_42:

(7, 29764), (Start: 12 @29827 has 42 MA's), (17, 29848), (20, 29878), (26, 29929), (28, 29941), (30, 29953), (33, 30007), (37, 30052), (40, 30064), (41, 30079), (48, 30112), (64, 30250),

Gene: Chipper1996_150 Start: 11510, Stop: 11980, Start Num: 10

Candidate Starts for Chipper1996_150:

(Start: 10 @11510 has 19 MA's), (15, 11522), (19, 11561), (20, 11564), (29, 11630), (30, 11636), (41, 11768), (47, 11801), (49, 11825), (52, 11843), (56, 11882), (61, 11927), (65, 11960), (66, 11972),

Gene: ChisanaKitsune_38 Start: 28618, Stop: 29073, Start Num: 12

Candidate Starts for ChisanaKitsune_38:

(7, 28555), (Start: 12 @28618 has 42 MA's), (17, 28639), (20, 28669), (26, 28720), (28, 28732), (30, 28744), (33, 28798), (37, 28843), (40, 28855), (41, 28870), (48, 28903), (64, 29041),

Gene: Chocolat_15 Start: 11511, Stop: 11981, Start Num: 10

Candidate Starts for Chocolat_15:

(Start: 10 @11511 has 19 MA's), (15, 11523), (19, 11562), (20, 11565), (29, 11631), (30, 11637), (41, 11769), (47, 11802), (49, 11826), (52, 11844), (56, 11883), (61, 11928), (65, 11961), (66, 11973),

Gene: Chubster_15 Start: 11281, Stop: 11751, Start Num: 10

Candidate Starts for Chubster_15:

(Start: 10 @11281 has 19 MA's), (15, 11293), (19, 11332), (20, 11335), (29, 11401), (30, 11407), (41, 11539), (47, 11572), (49, 11596), (52, 11614), (56, 11653), (61, 11698), (65, 11731), (66, 11743),

Gene: Colucci_14 Start: 11015, Stop: 11482, Start Num: 10

Candidate Starts for Colucci_14:

(Start: 10 @11015 has 19 MA's), (15, 11027), (19, 11066), (39, 11252), (42, 11273), (47, 11303), (52, 11345), (56, 11384), (58, 11402), (65, 11462),

Gene: Conboy_15 Start: 11509, Stop: 11979, Start Num: 10

Candidate Starts for Conboy_15:

(Start: 10 @11509 has 19 MA's), (15, 11521), (19, 11560), (20, 11563), (29, 11629), (30, 11635), (41, 11767), (47, 11800), (49, 11824), (52, 11842), (56, 11881), (61, 11926), (65, 11959), (66, 11971),

Gene: DalanDe_36 Start: 32484, Stop: 32954, Start Num: 9

Candidate Starts for DalanDe_36:

(Start: 9 @32484 has 1 MA's), (22, 32541), (23, 32559), (26, 32583), (28, 32595), (33, 32661), (46, 32760), (60, 32898),

Gene: DrYang_15 Start: 11464, Stop: 11934, Start Num: 10

Candidate Starts for DrYang_15:

(Start: 10 @11464 has 19 MA's), (15, 11476), (19, 11515), (20, 11518), (30, 11590), (41, 11722), (49, 11779), (52, 11797), (56, 11836), (58, 11854), (65, 11914), (66, 11926),

Gene: EastWest_13 Start: 9545, Stop: 10018, Start Num: 12

Candidate Starts for EastWest_13:

(Start: 12 @9545 has 42 MA's), (15, 9554), (56, 9917), (57, 9932), (62, 9968),

Gene: EdgarPoe_15 Start: 11509, Stop: 11979, Start Num: 10

Candidate Starts for EdgarPoe_15:

(Start: 10 @11509 has 19 MA's), (15, 11521), (19, 11560), (20, 11563), (29, 11629), (30, 11635), (41, 11767), (47, 11800), (49, 11824), (52, 11842), (56, 11881), (61, 11926), (65, 11959), (66, 11971),

Gene: FlyingTortilla_41 Start: 32692, Stop: 33147, Start Num: 12

Candidate Starts for FlyingTortilla_41:

(Start: 12 @32692 has 42 MA's), (14, 32698), (17, 32713), (26, 32794), (28, 32806), (31, 32833), (33, 32872), (39, 32926), (41, 32944), (60, 33091), (64, 33115),

Gene: Franzy_11 Start: 9186, Stop: 9650, Start Num: 12

Candidate Starts for Franzy_11:

(Start: 12 @9186 has 42 MA's), (18, 9231), (19, 9234), (26, 9288), (29, 9303), (36, 9402), (51, 9504), (52, 9516), (56, 9555),

Gene: GMA6_26 Start: 20625, Stop: 20996, Start Num: 26

Candidate Starts for GMA6_26:

(8, 20523), (26, 20625), (30, 20649), (34, 20721), (35, 20733), (39, 20757), (41, 20775), (54, 20871), (55, 20883), (58, 20919), (59, 20925), (60, 20937),

Gene: GravityBall_12 Start: 9513, Stop: 9980, Start Num: 12

Candidate Starts for GravityBall_12:

(5, 9420), (6, 9429), (Start: 12 @9513 has 42 MA's), (15, 9522), (26, 9615), (43, 9783), (52, 9846), (56, 9885),

Gene: Gray_42 Start: 29828, Stop: 30283, Start Num: 12

Candidate Starts for Gray_42:

(7, 29765), (Start: 12 @29828 has 42 MA's), (17, 29849), (20, 29879), (26, 29930), (28, 29942), (30, 29954), (33, 30008), (37, 30053), (40, 30065), (41, 30080), (48, 30113), (64, 30251),

Gene: Grekaycon_12 Start: 9526, Stop: 9993, Start Num: 12

Candidate Starts for Grekaycon_12:

(Start: 12 @9526 has 42 MA's), (18, 9571), (19, 9574), (26, 9628), (40, 9769), (43, 9796), (44, 9802), (56, 9898),

Gene: Hanem_42 Start: 29827, Stop: 30282, Start Num: 12

Candidate Starts for Hanem_42:

(7, 29764), (Start: 12 @29827 has 42 MA's), (17, 29848), (20, 29878), (26, 29929), (28, 29941), (30, 29953), (33, 30007), (37, 30052), (40, 30064), (41, 30079), (48, 30112), (64, 30250),

Gene: Hirko_12 Start: 10525, Stop: 10995, Start Num: 12

Candidate Starts for Hirko_12:

(Start: 12 @10525 has 42 MA's), (26, 10627), (43, 10792), (44, 10798), (49, 10837), (56, 10894), (58, 10912),

Gene: HumptyDumpty_15 Start: 11508, Stop: 11978, Start Num: 10

Candidate Starts for HumptyDumpty_15:

(Start: 10 @11508 has 19 MA's), (15, 11520), (19, 11559), (20, 11562), (29, 11628), (30, 11634), (41, 11766), (47, 11799), (49, 11823), (52, 11841), (56, 11880), (61, 11925), (65, 11958), (66, 11970),

Gene: JKerns_12 Start: 9553, Stop: 10020, Start Num: 12

Candidate Starts for JKerns_12:

(Start: 12 @9553 has 42 MA's), (18, 9598), (19, 9601), (26, 9655), (40, 9796), (43, 9823), (44, 9829), (56, 9925),

Gene: JaNo_15 Start: 11508, Stop: 11978, Start Num: 10

Candidate Starts for JaNo_15:

(Start: 10 @11508 has 19 MA's), (15, 11520), (19, 11559), (20, 11562), (29, 11628), (30, 11634), (41, 11766), (47, 11799), (49, 11823), (52, 11841), (56, 11880), (61, 11925), (65, 11958), (66, 11970),

Gene: Jawnski_11 Start: 9199, Stop: 9663, Start Num: 12

Candidate Starts for Jawnski_11:

(Start: 12 @9199 has 42 MA's), (18, 9244), (19, 9247), (26, 9301), (29, 9316), (36, 9415), (51, 9517), (56, 9568),

Gene: JayCookie_15 Start: 11511, Stop: 11981, Start Num: 10

Candidate Starts for JayCookie_15:

(Start: 10 @11511 has 19 MA's), (15, 11523), (19, 11562), (20, 11565), (29, 11631), (30, 11637), (41, 11769), (47, 11802), (49, 11826), (52, 11844), (56, 11883), (61, 11928), (65, 11961), (66, 11973),

Gene: Jinkies_13 Start: 9830, Stop: 10297, Start Num: 11

Candidate Starts for Jinkies_13:

(Start: 11 @9830 has 1 MA's), (26, 9932), (27, 9938), (29, 9947), (38, 10061), (40, 10067), (43, 10094), (44, 10100), (49, 10139), (56, 10196), (57, 10211), (66, 10286),

Gene: Jordan_12 Start: 9523, Stop: 9990, Start Num: 12

Candidate Starts for Jordan_12:

(Start: 12 @9523 has 42 MA's), (18, 9568), (19, 9571), (26, 9625), (40, 9766), (43, 9793), (44, 9799), (56, 9895),

Gene: KBurrousTX_15 Start: 11282, Stop: 11752, Start Num: 10

Candidate Starts for KBurrousTX_15:

(Start: 10 @11282 has 19 MA's), (15, 11294), (18, 11330), (19, 11333), (33, 11468), (39, 11522), (42, 11543), (43, 11552), (47, 11573), (49, 11597), (52, 11615), (56, 11654), (58, 11672), (65, 11732), (66, 11744),

Gene: Kabocha_43 Start: 30640, Stop: 31095, Start Num: 12

Candidate Starts for Kabocha_43:

(7, 30577), (Start: 12 @30640 has 42 MA's), (17, 30661), (20, 30691), (26, 30742), (28, 30754), (30, 30766), (33, 30820), (37, 30865), (40, 30877), (41, 30892), (48, 30925), (64, 31063),

Gene: Kabreeze_15 Start: 11508, Stop: 11978, Start Num: 10

Candidate Starts for Kabreeze_15:

(Start: 10 @11508 has 19 MA's), (15, 11520), (19, 11559), (20, 11562), (29, 11628), (30, 11634), (41, 11766), (47, 11799), (49, 11823), (52, 11841), (56, 11880), (61, 11925), (65, 11958), (66, 11970),

Gene: King2_11 Start: 9188, Stop: 9652, Start Num: 12

Candidate Starts for King2_11:

(Start: 12 @9188 has 42 MA's), (18, 9233), (19, 9236), (26, 9290), (36, 9404), (51, 9506), (56, 9557),

Gene: Klevey_11 Start: 8915, Stop: 9379, Start Num: 12

Candidate Starts for Klevey_11:

(Start: 12 @8915 has 42 MA's), (43, 9182), (50, 9230), (56, 9284), (62, 9335),

Gene: LeeroyJ_12 Start: 9513, Stop: 9980, Start Num: 12

Candidate Starts for LeeroyJ_12:

(5, 9420), (6, 9429), (Start: 12 @9513 has 42 MA's), (15, 9522), (26, 9615), (43, 9783), (52, 9846), (56, 9885),

Gene: Lenoshki_42 Start: 31528, Stop: 31962, Start Num: 17

Candidate Starts for Lenoshki_42:

(7, 31444), (Start: 12 @31507 has 42 MA's), (17, 31528), (20, 31558), (26, 31609), (28, 31621), (30, 31633), (33, 31687), (37, 31732), (39, 31741), (41, 31759), (48, 31792), (64, 31930),

Gene: Lilmac1015_11 Start: 8905, Stop: 9369, Start Num: 12

Candidate Starts for Lilmac1015_11:

(Start: 12 @8905 has 42 MA's), (43, 9172), (50, 9220), (56, 9274), (62, 9325),

Gene: Linus_15 Start: 11508, Stop: 11978, Start Num: 10

Candidate Starts for Linus_15:

(Start: 10 @11508 has 19 MA's), (15, 11520), (19, 11559), (20, 11562), (29, 11628), (30, 11634), (41, 11766), (47, 11799), (49, 11823), (52, 11841), (56, 11880), (61, 11925), (65, 11958), (66, 11970),

Gene: Lymara_15 Start: 11510, Stop: 11980, Start Num: 10

Candidate Starts for Lymara_15:

(Start: 10 @11510 has 19 MA's), (15, 11522), (19, 11561), (20, 11564), (30, 11636), (39, 11750), (41, 11768), (47, 11801), (49, 11825), (52, 11843), (56, 11882), (61, 11927), (65, 11960), (66, 11972),

Gene: Martha_12 Start: 9464, Stop: 9931, Start Num: 12

Candidate Starts for Martha_12:

(Start: 12 @9464 has 42 MA's), (18, 9509), (19, 9512), (26, 9566), (40, 9707), (43, 9734), (44, 9740), (56, 9836),

Gene: MintFritos_40 Start: 29828, Stop: 30283, Start Num: 12

Candidate Starts for MintFritos_40:

(7, 29765), (Start: 12 @29828 has 42 MA's), (17, 29849), (20, 29879), (26, 29930), (28, 29942), (30, 29954), (33, 30008), (37, 30053), (40, 30065), (41, 30080), (48, 30113), (64, 30251),

Gene: Mordred_15 Start: 11508, Stop: 11978, Start Num: 10

Candidate Starts for Mordred_15:

(Start: 10 @11508 has 19 MA's), (15, 11520), (19, 11559), (20, 11562), (29, 11628), (30, 11634), (41, 11766), (47, 11799), (49, 11823), (52, 11841), (56, 11880), (61, 11925), (65, 11958), (66, 11970),

Gene: MoyaNatalis_15 Start: 11523, Stop: 11981, Start Num: 15

Candidate Starts for MoyaNatalis_15:

(Start: 10 @11511 has 19 MA's), (15, 11523), (19, 11562), (20, 11565), (29, 11631), (30, 11637), (41, 11769), (47, 11802), (49, 11826), (52, 11844), (56, 11883), (61, 11928), (65, 11961), (66, 11973),

Gene: NathanVaag_11 Start: 9192, Stop: 9656, Start Num: 12

Candidate Starts for NathanVaag_11:

(Start: 12 @9192 has 42 MA's), (18, 9237), (19, 9240), (26, 9294), (29, 9309), (36, 9408), (51, 9510), (56, 9561),

Gene: Oogie_42 Start: 31554, Stop: 31988, Start Num: 17

Candidate Starts for Oogie_42:

(7, 31470), (Start: 12 @31533 has 42 MA's), (17, 31554), (20, 31584), (26, 31635), (28, 31647), (30, 31659), (33, 31713), (37, 31758), (39, 31767), (41, 31785), (48, 31818), (64, 31956),

Gene: Pakusa_40 Start: 29569, Stop: 30024, Start Num: 12

Candidate Starts for Pakusa_40:

(7, 29506), (Start: 12 @29569 has 42 MA's), (17, 29590), (20, 29620), (26, 29671), (28, 29683), (30, 29695), (33, 29749), (37, 29794), (40, 29806), (41, 29821), (48, 29854), (64, 29992),

Gene: Piccoletto_11 Start: 9193, Stop: 9657, Start Num: 12

Candidate Starts for Piccoletto_11:

(Start: 12 @9193 has 42 MA's), (18, 9238), (19, 9241), (26, 9295), (29, 9310), (36, 9409), (51, 9511), (56, 9562),

Gene: Pippa_12 Start: 9563, Stop: 10030, Start Num: 12

Candidate Starts for Pippa_12:

(Start: 12 @9563 has 42 MA's), (18, 9608), (19, 9611), (26, 9665), (40, 9806), (43, 9833), (44, 9839), (56, 9935),

Gene: Prairie_11 Start: 8912, Stop: 9376, Start Num: 12

Candidate Starts for Prairie_11:

(Start: 12 @8912 has 42 MA's), (43, 9179), (50, 9227), (56, 9281), (62, 9332),

Gene: PrincessTrina_15 Start: 11511, Stop: 11981, Start Num: 10

Candidate Starts for PrincessTrina_15:

(Start: 10 @11511 has 19 MA's), (15, 11523), (19, 11562), (20, 11565), (29, 11631), (30, 11637), (41, 11769), (47, 11802), (49, 11826), (52, 11844), (56, 11883), (61, 11928), (65, 11961), (66, 11973),

Gene: RosiePosie_15 Start: 11511, Stop: 11981, Start Num: 10

Candidate Starts for RosiePosie_15:

(Start: 10 @11511 has 19 MA's), (15, 11523), (19, 11562), (20, 11565), (29, 11631), (30, 11637), (41, 11769), (47, 11802), (49, 11826), (52, 11844), (56, 11883), (61, 11928), (65, 11961), (66, 11973),

Gene: ScarletRaider_41 Start: 32719, Stop: 33174, Start Num: 12

Candidate Starts for ScarletRaider_41:

(Start: 12 @32719 has 42 MA's), (14, 32725), (17, 32740), (26, 32821), (28, 32833), (31, 32860), (33, 32899), (39, 32953), (41, 32971), (60, 33118), (64, 33142),

Gene: Scavito_15 Start: 11508, Stop: 11978, Start Num: 10

Candidate Starts for Scavito_15:

(Start: 10 @11508 has 19 MA's), (15, 11520), (19, 11559), (20, 11562), (29, 11628), (30, 11634), (41, 11766), (47, 11799), (49, 11823), (52, 11841), (56, 11880), (61, 11925), (65, 11958), (66, 11970),

Gene: Schomber_41 Start: 29577, Stop: 30032, Start Num: 12

Candidate Starts for Schomber_41:

(7, 29514), (Start: 12 @29577 has 42 MA's), (17, 29598), (20, 29628), (26, 29679), (28, 29691), (30, 29703), (33, 29757), (37, 29802), (40, 29814), (41, 29829), (48, 29862), (64, 30000),

Gene: Shade_12 Start: 9502, Stop: 9969, Start Num: 12

Candidate Starts for Shade_12:

(Start: 12 @9502 has 42 MA's), (18, 9547), (19, 9550), (26, 9604), (40, 9745), (43, 9772), (44, 9778), (56, 9874),

Gene: Sicarius2_13 Start: 10002, Stop: 10475, Start Num: 12

Candidate Starts for Sicarius2_13:

(Start: 12 @10002 has 42 MA's), (15, 10011), (25, 10095), (43, 10272), (47, 10293), (56, 10374), (62, 10425),

Gene: Sonny_12 Start: 9523, Stop: 9990, Start Num: 12

Candidate Starts for Sonny_12:

(Start: 12 @9523 has 42 MA's), (18, 9568), (19, 9571), (26, 9625), (40, 9766), (43, 9793), (44, 9799), (56, 9895),

Gene: StevieBAY_12 Start: 9513, Stop: 9980, Start Num: 12

Candidate Starts for StevieBAY_12:

(5, 9420), (6, 9429), (Start: 12 @9513 has 42 MA's), (15, 9522), (26, 9615), (43, 9783), (52, 9846), (56, 9885),

Gene: TaeYoung_12 Start: 9527, Stop: 9994, Start Num: 12

Candidate Starts for TaeYoung_12:

(Start: 12 @9527 has 42 MA's), (18, 9572), (19, 9575), (26, 9629), (40, 9770), (43, 9797), (44, 9803), (56, 9899),

Gene: Timinator_12 Start: 9513, Stop: 9980, Start Num: 12

Candidate Starts for Timinator_12:

(5, 9420), (6, 9429), (Start: 12 @9513 has 42 MA's), (15, 9522), (26, 9615), (43, 9783), (52, 9846), (56, 9885),

Gene: Tophat_15 Start: 11510, Stop: 11980, Start Num: 10

Candidate Starts for Tophat_15:

(Start: 10 @11510 has 19 MA's), (15, 11522), (19, 11561), (20, 11564), (29, 11630), (30, 11636), (41, 11768), (47, 11801), (49, 11825), (52, 11843), (56, 11882), (61, 11927), (65, 11960), (66, 11972),

Gene: Twin_40 Start: 29827, Stop: 30282, Start Num: 12

Candidate Starts for Twin_40:

(7, 29764), (Start: 12 @29827 has 42 MA's), (17, 29848), (20, 29878), (26, 29929), (28, 29941), (30, 29953), (33, 30007), (37, 30052), (40, 30064), (41, 30079), (48, 30112), (64, 30250),

Gene: UBSmoodge_43 Start: 32453, Stop: 32908, Start Num: 12

Candidate Starts for UBSmoodge_43:

(3, 32291), (Start: 12 @32453 has 42 MA's), (14, 32459), (17, 32474), (26, 32555), (28, 32567), (31, 32594), (39, 32687), (41, 32705), (60, 32852), (64, 32876),

Gene: Vibaki_13 Start: 10981, Stop: 11451, Start Num: 12

Candidate Starts for Vibaki_13:

(Start: 12 @10981 has 42 MA's), (26, 11083), (40, 11221), (43, 11248), (44, 11254), (49, 11293), (56, 11350), (58, 11368),

Gene: Wyborn_13 Start: 9863, Stop: 10336, Start Num: 12

Candidate Starts for Wyborn_13:

(Start: 12 @9863 has 42 MA's), (15, 9872), (25, 9956), (43, 10133), (47, 10154), (56, 10235), (62, 10286),

Gene: Zartrosa_12 Start: 9526, Stop: 9993, Start Num: 12

Candidate Starts for Zartrosa_12:

(Start: 12 @9526 has 42 MA's), (18, 9571), (19, 9574), (26, 9628), (40, 9769), (43, 9796), (44, 9802), (56, 9898),