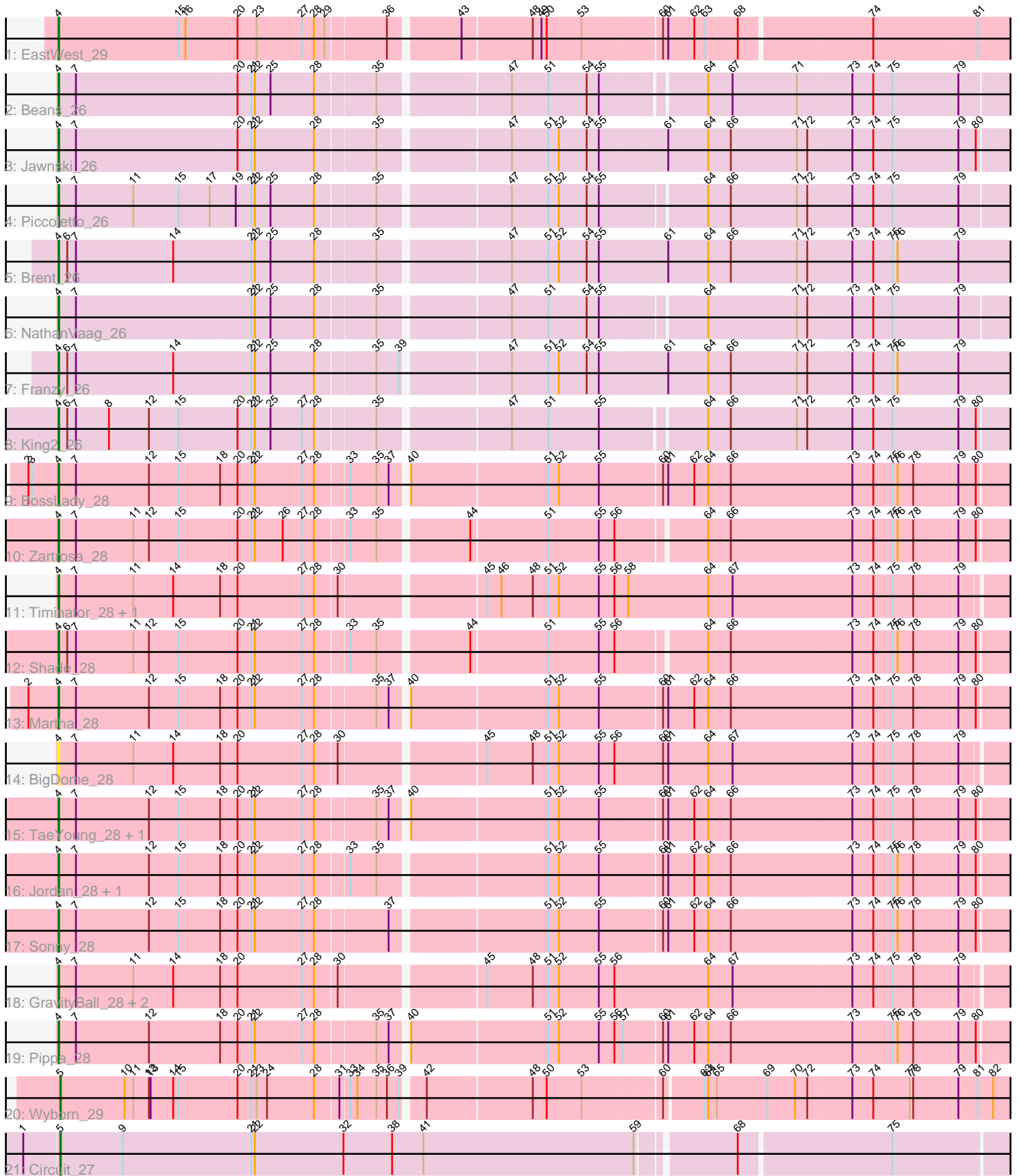


Pham 305251



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 305251 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305251 has 26 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EastWest_29
- Track 2 : Beans_26
- Track 3 : Jawnski_26
- Track 4 : Piccoletto_26
- Track 5 : Brent_26
- Track 6 : NathanVaag_26
- Track 7 : Franzy_26
- Track 8 : King2_26
- Track 9 : BossLady_28
- Track 10 : Zartrosa_28
- Track 11 : Timinator_28, LeeroyJ_28
- Track 12 : Shade_28
- Track 13 : Martha_28
- Track 14 : BigDome_28
- Track 15 : TaeYoung_28, Grekaycon_28
- Track 16 : Jordan_28, JKerns_28
- Track 17 : Sonny_28
- Track 18 : GravityBall_28, BarretLemon_28, StevieBAY_28
- Track 19 : Pippa_28
- Track 20 : Wyborn_29
- Track 21 : Circuit_27

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

The start number called the most often in the published annotations is 4, it was called in 23 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon_28, Beans_26, BigDome_28, BossLady_28, Brent_26, EastWest_29, Franzy_26, GravityBall_28, Grekaycon_28, JKerns_28, Jawnski_26, Jordan_28, King2_26, LeeroyJ_28, Martha_28, NathanVaag_26, Piccoletto_26, Pippa_28, Shade_28, Sonny_28, StevieBAY_28, TaeYoung_28, Timinator_28, Zartrosa_28,

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

-

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

- Circuit_27, Wyborn_29,

Summary by start number:

Start 4:

- Found in 24 of 26 (92.3%) of genes in pham
- Manual Annotations of this start: 23 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarretLemon_28 (AO2), Beans_26 (AO1), BigDome_28 (AO2), BossLady_28 (AO2), Brent_26 (AO1), EastWest_29 (AO), Franzy_26 (AO1), GravityBall_28 (AO2), Grekaycon_28 (AO2), JKerns_28 (AO2), Jawnski_26 (AO1), Jordan_28 (AO2), King2_26 (AO1), LeeroyJ_28 (AO2), Martha_28 (AO2), NathanVaag_26 (AO1), Piccoletto_26 (AO1), Pippa_28 (AO2), Shade_28 (AO2), Sonny_28 (AO2), StevieBAY_28 (AO2), TaeYoung_28 (AO2), Timinator_28 (AO2), Zartrosa_28 (AO2),

Start 5:

- Found in 2 of 26 (7.7%) of genes in pham
- Manual Annotations of this start: 2 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Circuit_27 (FH), Wyborn_29 (AO2),

Summary by clusters:

There are 4 clusters represented in this pham: FH, AO, AO2, AO1,

Info for manual annotations of cluster AO:

- Start number 4 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 4 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 4 was manually annotated 15 times for cluster AO2.
- Start number 5 was manually annotated 1 time for cluster AO2.

Info for manual annotations of cluster FH:

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

Gene Information:

Gene: BarretLemon_28 Start: 23730, Stop: 25319, Start Num: 4

Candidate Starts for BarretLemon_28:

(Start: 4 @23730 has 23 MA's), (7, 23760), (11, 23859), (14, 23928), (18, 24009), (20, 24036), (27, 24147), (28, 24168), (30, 24204), (45, 24426), (48, 24504), (51, 24531), (52, 24549), (55, 24615), (56, 24642), (64, 24798), (67, 24840), (73, 25044), (74, 25080), (75, 25113), (78, 25149), (79, 25221),

Gene: Beans_26 Start: 23393, Stop: 24982, Start Num: 4

Candidate Starts for Beans_26:

(Start: 4 @23393 has 23 MA's), (7, 23423), (20, 23699), (21, 23723), (22, 23729), (25, 23756), (28, 23831), (35, 23930), (47, 24131), (51, 24194), (54, 24260), (55, 24278), (64, 24443), (67, 24485), (71, 24596), (73, 24689), (74, 24725), (75, 24758), (79, 24869),

Gene: BigDome_28 Start: 23719, Stop: 25311, Start Num: 4

Candidate Starts for BigDome_28:

(Start: 4 @23719 has 23 MA's), (7, 23749), (11, 23848), (14, 23917), (18, 23998), (20, 24025), (27, 24136), (28, 24157), (30, 24193), (45, 24415), (48, 24493), (51, 24520), (52, 24538), (55, 24604), (56, 24631), (60, 24712), (61, 24721), (64, 24790), (67, 24832), (73, 25036), (74, 25072), (75, 25105), (78, 25141), (79, 25213),

Gene: BossLady_28 Start: 23701, Stop: 25299, Start Num: 4

Candidate Starts for BossLady_28:

(2, 23650), (3, 23656), (Start: 4 @23701 has 23 MA's), (7, 23731), (12, 23857), (15, 23908), (18, 23980), (20, 24007), (21, 24031), (22, 24037), (27, 24118), (28, 24139), (33, 24193), (35, 24238), (37, 24259), (40, 24280), (51, 24502), (52, 24520), (55, 24586), (60, 24685), (61, 24691), (62, 24736), (64, 24760), (66, 24799), (73, 25006), (74, 25042), (75, 25075), (76, 25084), (78, 25111), (79, 25186), (80, 25216),

Gene: Brent_26 Start: 23376, Stop: 24986, Start Num: 4

Candidate Starts for Brent_26:

(Start: 4 @23376 has 23 MA's), (6, 23391), (7, 23406), (14, 23574), (21, 23706), (22, 23712), (25, 23739), (28, 23814), (35, 23913), (47, 24114), (51, 24177), (52, 24195), (54, 24243), (55, 24261), (61, 24372), (64, 24441), (66, 24480), (71, 24594), (72, 24612), (73, 24687), (74, 24723), (75, 24756), (76, 24765), (79, 24867),

Gene: Circuit_27 Start: 22611, Stop: 24224, Start Num: 5

Candidate Starts for Circuit_27:

(1, 22551), (Start: 5 @22611 has 2 MA's), (9, 22719), (21, 22938), (22, 22944), (32, 23097), (38, 23181), (41, 23235), (59, 23598), (68, 23748), (75, 24003),

Gene: EastWest_29 Start: 23578, Stop: 25173, Start Num: 4

Candidate Starts for EastWest_29:

(Start: 4 @23578 has 23 MA's), (15, 23785), (16, 23797), (20, 23884), (23, 23917), (27, 23995), (28, 24016), (29, 24034), (36, 24133), (43, 24241), (48, 24352), (49, 24367), (50, 24376), (53, 24436), (60, 24568), (61, 24577), (62, 24622), (63, 24640), (68, 24697), (74, 24916), (81, 25093),

Gene: Franzy_26 Start: 23375, Stop: 24985, Start Num: 4

Candidate Starts for Franzy_26:

(Start: 4 @23375 has 23 MA's), (6, 23390), (7, 23405), (14, 23573), (21, 23705), (22, 23711), (25, 23738), (28, 23813), (35, 23912), (39, 23951), (47, 24113), (51, 24176), (52, 24194), (54, 24242), (55, 24260), (61, 24371), (64, 24440), (66, 24479), (71, 24593), (72, 24611), (73, 24686), (74, 24722), (75, 24755), (76, 24764), (79, 24866),

Gene: GravityBall_28 Start: 23729, Stop: 25318, Start Num: 4

Candidate Starts for GravityBall_28:

(Start: 4 @23729 has 23 MA's), (7, 23759), (11, 23858), (14, 23927), (18, 24008), (20, 24035), (27, 24146), (28, 24167), (30, 24203), (45, 24425), (48, 24503), (51, 24530), (52, 24548), (55, 24614), (56, 24641), (64, 24797), (67, 24839), (73, 25043), (74, 25079), (75, 25112), (78, 25148), (79, 25220),

Gene: Grekaycon_28 Start: 23647, Stop: 25245, Start Num: 4

Candidate Starts for Grekaycon_28:

(Start: 4 @23647 has 23 MA's), (7, 23677), (12, 23803), (15, 23854), (18, 23926), (20, 23953), (21, 23977), (22, 23983), (27, 24064), (28, 24085), (35, 24184), (37, 24205), (40, 24226), (51, 24448), (52, 24466), (55, 24532), (60, 24631), (61, 24637), (62, 24682), (64, 24706), (66, 24745), (73, 24952), (74, 24988), (75, 25021), (78, 25057), (79, 25132), (80, 25162),

Gene: JKerns_28 Start: 23674, Stop: 25272, Start Num: 4

Candidate Starts for JKerns_28:

(Start: 4 @23674 has 23 MA's), (7, 23704), (12, 23830), (15, 23881), (18, 23953), (20, 23980), (21, 24004), (22, 24010), (27, 24091), (28, 24112), (33, 24166), (35, 24211), (51, 24475), (52, 24493), (55, 24559), (60, 24658), (61, 24664), (62, 24709), (64, 24733), (66, 24772), (73, 24979), (74, 25015), (75, 25048), (76, 25057), (78, 25084), (79, 25159), (80, 25189),

Gene: Jawnski_26 Start: 23388, Stop: 24995, Start Num: 4

Candidate Starts for Jawnski_26:

(Start: 4 @23388 has 23 MA's), (7, 23418), (20, 23694), (21, 23718), (22, 23724), (28, 23826), (35, 23925), (47, 24126), (51, 24189), (52, 24207), (54, 24255), (55, 24273), (61, 24387), (64, 24456), (66, 24495), (71, 24609), (72, 24627), (73, 24702), (74, 24738), (75, 24771), (79, 24882), (80, 24912),

Gene: Jordan_28 Start: 23644, Stop: 25242, Start Num: 4

Candidate Starts for Jordan_28:

(Start: 4 @23644 has 23 MA's), (7, 23674), (12, 23800), (15, 23851), (18, 23923), (20, 23950), (21, 23974), (22, 23980), (27, 24061), (28, 24082), (33, 24136), (35, 24181), (51, 24445), (52, 24463), (55, 24529), (60, 24628), (61, 24634), (62, 24679), (64, 24703), (66, 24742), (73, 24949), (74, 24985), (75, 25018), (76, 25027), (78, 25054), (79, 25129), (80, 25159),

Gene: King2_26 Start: 23393, Stop: 24982, Start Num: 4

Candidate Starts for King2_26:

(Start: 4 @23393 has 23 MA's), (6, 23408), (7, 23423), (8, 23480), (12, 23549), (15, 23600), (20, 23699), (21, 23723), (22, 23729), (25, 23756), (27, 23810), (28, 23831), (35, 23930), (47, 24131), (51, 24194), (55, 24278), (64, 24443), (66, 24482), (71, 24596), (72, 24614), (73, 24689), (74, 24725), (75, 24758), (79, 24869), (80, 24899),

Gene: LeeroyJ_28 Start: 23729, Stop: 25318, Start Num: 4

Candidate Starts for LeeroyJ_28:

(Start: 4 @23729 has 23 MA's), (7, 23759), (11, 23858), (14, 23927), (18, 24008), (20, 24035), (27, 24146), (28, 24167), (30, 24203), (45, 24425), (46, 24449), (48, 24503), (51, 24530), (52, 24548), (55, 24614), (56, 24641), (58, 24662), (64, 24797), (67, 24839), (73, 25043), (74, 25079), (75, 25112), (78, 25148), (79, 25220),

Gene: Martha_28 Start: 23648, Stop: 25246, Start Num: 4

Candidate Starts for Martha_28:

(2, 23597), (Start: 4 @23648 has 23 MA's), (7, 23678), (12, 23804), (15, 23855), (18, 23927), (20, 23954), (21, 23978), (22, 23984), (27, 24065), (28, 24086), (35, 24185), (37, 24206), (40, 24227), (51, 24449), (52, 24467), (55, 24533), (60, 24632), (61, 24638), (62, 24683), (64, 24707), (66, 24746), (73, 24953), (74, 24989), (75, 25022), (78, 25058), (79, 25133), (80, 25163),

Gene: NathanVaag_26 Start: 23369, Stop: 24958, Start Num: 4

Candidate Starts for NathanVaag_26:

(Start: 4 @23369 has 23 MA's), (7, 23399), (21, 23699), (22, 23705), (25, 23732), (28, 23807), (35, 23906), (47, 24107), (51, 24170), (54, 24236), (55, 24254), (64, 24419), (71, 24572), (72, 24590), (73, 24665), (74, 24701), (75, 24734), (79, 24845),

Gene: Piccoletto_26 Start: 23368, Stop: 24960, Start Num: 4

Candidate Starts for Piccoletto_26:

(Start: 4 @23368 has 23 MA's), (7, 23398), (11, 23497), (15, 23575), (17, 23629), (19, 23671), (21, 23698), (22, 23704), (25, 23731), (28, 23806), (35, 23905), (47, 24106), (51, 24169), (52, 24187), (54, 24235), (55, 24253), (64, 24421), (66, 24460), (71, 24574), (72, 24592), (73, 24667), (74, 24703), (75, 24736), (79, 24847),

Gene: Pippa_28 Start: 23773, Stop: 25371, Start Num: 4

Candidate Starts for Pippa_28:

(Start: 4 @23773 has 23 MA's), (7, 23803), (12, 23929), (18, 24052), (20, 24079), (21, 24103), (22, 24109), (27, 24190), (28, 24211), (35, 24310), (37, 24331), (40, 24352), (51, 24574), (52, 24592), (55, 24658), (56, 24685), (57, 24697), (60, 24757), (61, 24763), (62, 24808), (64, 24832), (66, 24871), (73, 25078), (75, 25147), (76, 25156), (78, 25183), (79, 25258), (80, 25288),

Gene: Shade_28 Start: 23623, Stop: 25212, Start Num: 4

Candidate Starts for Shade_28:

(Start: 4 @23623 has 23 MA's), (6, 23638), (7, 23653), (11, 23752), (12, 23779), (15, 23830), (20, 23929), (21, 23953), (22, 23959), (27, 24040), (28, 24061), (33, 24115), (35, 24160), (44, 24298), (51, 24424), (55, 24508), (56, 24535), (64, 24673), (66, 24712), (73, 24919), (74, 24955), (75, 24988), (76, 24997), (78, 25024), (79, 25099), (80, 25129),

Gene: Sonny_28 Start: 23644, Stop: 25242, Start Num: 4

Candidate Starts for Sonny_28:

(Start: 4 @23644 has 23 MA's), (7, 23674), (12, 23800), (15, 23851), (18, 23923), (20, 23950), (21, 23974), (22, 23980), (27, 24061), (28, 24082), (37, 24202), (51, 24445), (52, 24463), (55, 24529), (60, 24628), (61, 24634), (62, 24679), (64, 24703), (66, 24742), (73, 24949), (74, 24985), (75, 25018), (76, 25027), (78, 25054), (79, 25129), (80, 25159),

Gene: StevieBAY_28 Start: 23729, Stop: 25318, Start Num: 4

Candidate Starts for StevieBAY_28:

(Start: 4 @23729 has 23 MA's), (7, 23759), (11, 23858), (14, 23927), (18, 24008), (20, 24035), (27, 24146), (28, 24167), (30, 24203), (45, 24425), (48, 24503), (51, 24530), (52, 24548), (55, 24614), (56, 24641), (64, 24797), (67, 24839), (73, 25043), (74, 25079), (75, 25112), (78, 25148), (79, 25220),

Gene: TaeYoung_28 Start: 23648, Stop: 25246, Start Num: 4

Candidate Starts for TaeYoung_28:

(Start: 4 @23648 has 23 MA's), (7, 23678), (12, 23804), (15, 23855), (18, 23927), (20, 23954), (21, 23978), (22, 23984), (27, 24065), (28, 24086), (35, 24185), (37, 24206), (40, 24227), (51, 24449), (52, 24467), (55, 24533), (60, 24632), (61, 24638), (62, 24683), (64, 24707), (66, 24746), (73, 24953), (74, 24989), (75, 25022), (78, 25058), (79, 25133), (80, 25163),

Gene: Timinator_28 Start: 23729, Stop: 25318, Start Num: 4

Candidate Starts for Timinator_28:

(Start: 4 @23729 has 23 MA's), (7, 23759), (11, 23858), (14, 23927), (18, 24008), (20, 24035), (27, 24146), (28, 24167), (30, 24203), (45, 24425), (46, 24449), (48, 24503), (51, 24530), (52, 24548), (55, 24614), (56, 24641), (58, 24662), (64, 24797), (67, 24839), (73, 25043), (74, 25079), (75, 25112), (78, 25148), (79, 25220),

Gene: Wyborn_29 Start: 23980, Stop: 25587, Start Num: 5

Candidate Starts for Wyborn_29:

(Start: 5 @23980 has 2 MA's), (10, 24091), (11, 24103), (12, 24130), (13, 24133), (14, 24172), (15, 24181), (20, 24283), (21, 24307), (23, 24316), (24, 24334), (28, 24415), (31, 24454), (33, 24469), (34, 24481), (35, 24514), (36, 24532), (39, 24553), (42, 24580), (48, 24754), (50, 24778), (53, 24838), (60, 24967), (63, 25030), (64, 25036), (65, 25051), (69, 25138), (70, 25186), (72, 25207), (73, 25282), (74,

25318), (77, 25381), (78, 25387), (79, 25462), (81, 25495), (82, 25522),

Gene: Zartrosa_28 Start: 23647, Stop: 25236, Start Num: 4

Candidate Starts for Zartrosa_28:

(Start: 4 @23647 has 23 MA's), (7, 23677), (11, 23776), (12, 23803), (15, 23854), (20, 23953), (21, 23977), (22, 23983), (26, 24031), (27, 24064), (28, 24085), (33, 24139), (35, 24184), (44, 24322), (51, 24448), (55, 24532), (56, 24559), (64, 24697), (66, 24736), (73, 24943), (74, 24979), (75, 25012), (76, 25021), (78, 25048), (79, 25123), (80, 25153),