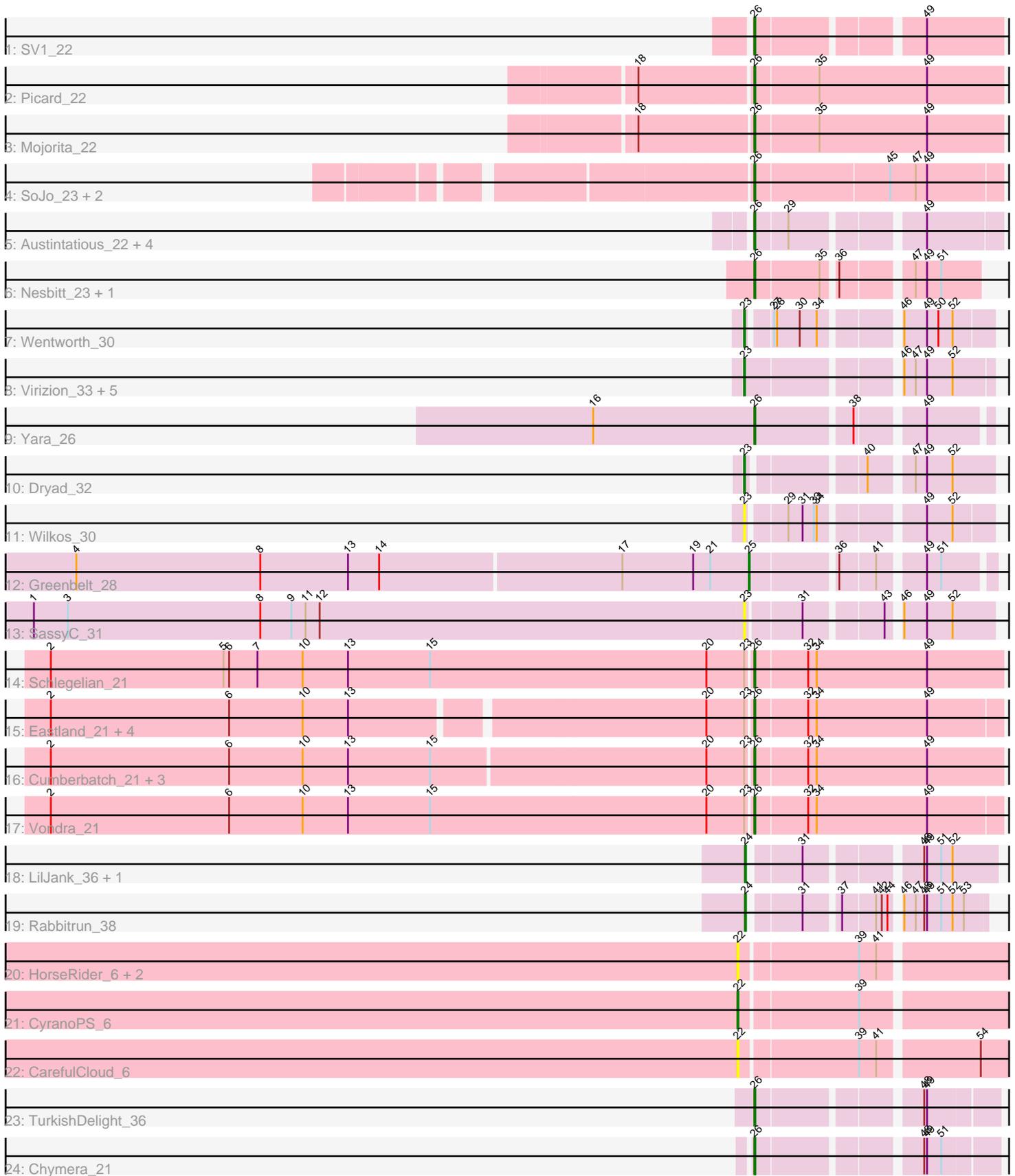


Pham 283926



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 283926 Report

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

Pham number 283926 has 46 members, 9 are drafts.

Phages represented in each track:

- Track 1 : SV1_22
- Track 2 : Picard_22
- Track 3 : Mojorita_22
- Track 4 : SoJo_23, Tubberson_23, DaRealMyers_23
- Track 5 : Austintatious_22, Bioscum_22, Ididsumtinwong_22, PapayaSalad_22, Lishka_22
- Track 6 : Nesbitt_23, AbbeyMikolon_23
- Track 7 : Wentworth_30
- Track 8 : Virizion_33, ShakeNBake_29, PHTowN_29, Rooney_29, Lizz_29, Gibson_29
- Track 9 : Yara_26
- Track 10 : Dryad_32
- Track 11 : Wilkos_30
- Track 12 : Greenbelt_28
- Track 13 : SassyC_31
- Track 14 : Schlegelian_21
- Track 15 : Eastland_21, AxeJC_21, Eklok_21, Piccadilly_21, FrumpyGal_21
- Track 16 : Cumberbatch_21, ArizonaGT_21, HFrancette_21, Ignacio_21
- Track 17 : Vondra_21
- Track 18 : LilJank_36, Trax_36
- Track 19 : Rabbitrun_38
- Track 20 : HorseRider_6, TailX7_6, Jalloh_6
- Track 21 : CyranoPS_6
- Track 22 : CarefulCloud_6
- Track 23 : TurkishDelight_36
- Track 24 : Chymera_21

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

The start number called the most often in the published annotations is 26, it was called in 26 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbeyMikolon_23, ArizonaGT_21, Austintatious_22, AxeJC_21, Bioscum_22, Chymera_21, Cumberbatch_21, DaRealMyers_23, Eastland_21, Eklok_21, FrumpyGal_21, HFrancette_21, Ididsumtinwong_22, Ignacio_21, Lishka_22, Mojorita_22, Nesbitt_23, PapayaSalad_22, Picard_22, Piccadilly_21, SV1_22, Schlegelian_21, SoJo_23, Tubberson_23, TurkishDelight_36, Vondra_21, Yara_26,

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

-

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

- CarefulCloud_6, CyranoPS_6, Dryad_32, Gibson_29, Greenbelt_28, HorseRider_6, Jalloh_6, LilJank_36, Lizz_29, PHTowN_29, Rabbitrun_38, Rooney_29, SassyC_31, ShakeNBake_29, TailX7_6, Trax_36, Virizion_33, Wentworth_30, Wilkos_30,

Summary by start number:

Start 22:

- Found in 5 of 46 (10.9%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CarefulCloud_6 (ER), CyranoPS_6 (ER), HorseRider_6 (ER), Jalloh_6 (ER), TailX7_6 (ER),

Start 23:

- Found in 21 of 46 (45.7%) of genes in pham
- Manual Annotations of this start: 7 of 37
- Called 47.6% of time when present
- Phage (with cluster) where this start called: Dryad_32 (BN), Gibson_29 (BN), Lizz_29 (BN), PHTowN_29 (BN), Rooney_29 (BN), SassyC_31 (BN), ShakeNBake_29 (BN), Virizion_33 (BN), Wentworth_30 (BN), Wilkos_30 (BN),

Start 24:

- Found in 3 of 46 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilJank_36 (DU2), Rabbitrun_38 (DU2), Trax_36 (DU2),

Start 25:

- Found in 1 of 46 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greenbelt_28 (BN),

Start 26:

- Found in 27 of 46 (58.7%) of genes in pham
- Manual Annotations of this start: 26 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbeyMikolon_23 (BL), ArizonaGT_21 (BP), Austintatious_22 (BC3), AxeJC_21 (BP), Bioscum_22 (BC3), Chymera_21 (singleton), Cumberbatch_21 (BP), DaRealMyers_23 (BC1), Eastland_21 (BP), Eklok_21 (BP), FrumpyGal_21 (BP), HFrancette_21 (BP), Ididsumtinwong_22 (BC3), Ignacio_21 (BP), Lishka_22 (BC3), Mojorita_22 (BC1), Nesbitt_23 (BL),

PapayaSalad_22 (BC3), Picard_22 (BC1), Piccadilly_21 (BP), SV1_22 (BC1), Schlegelian_21 (BP), SoJo_23 (BC1), Tubberson_23 (BC1), TurkishDelight_36 (singleton), Vondra_21 (BP), Yara_26 (BN),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, BL, BN, BP, DU2, BC3, BC1, ER,

Info for manual annotations of cluster BC1:

- Start number 26 was manually annotated 5 times for cluster BC1.

Info for manual annotations of cluster BC3:

- Start number 26 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BL:

- Start number 26 was manually annotated 2 times for cluster BL.

Info for manual annotations of cluster BN:

- Start number 23 was manually annotated 7 times for cluster BN.
- Start number 25 was manually annotated 1 time for cluster BN.
- Start number 26 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BP:

- Start number 26 was manually annotated 11 times for cluster BP.

Info for manual annotations of cluster DU2:

- Start number 24 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster ER:

- Start number 22 was manually annotated 1 time for cluster ER.

Gene Information:

Gene: AbbeyMikolon_23 Start: 18386, Stop: 18598, Start Num: 26

Candidate Starts for AbbeyMikolon_23:

(Start: 26 @18386 has 26 MA's), (35, 18452), (36, 18464), (47, 18530), (49, 18542), (51, 18557),

Gene: ArizonaGT_21 Start: 17942, Stop: 18202, Start Num: 26

Candidate Starts for ArizonaGT_21:

(2, 17210), (6, 17399), (10, 17477), (13, 17525), (15, 17612), (20, 17897), (Start: 23 @17936 has 7 MA's), (Start: 26 @17942 has 26 MA's), (32, 17996), (34, 18005), (49, 18122),

Gene: Austintatious_22 Start: 17098, Stop: 17331, Start Num: 26

Candidate Starts for Austintatious_22:

(Start: 26 @17098 has 26 MA's), (29, 17131), (49, 17254),

Gene: AxeJC_21 Start: 17926, Stop: 18183, Start Num: 26

Candidate Starts for AxeJC_21:

(2, 17209), (6, 17398), (10, 17476), (13, 17524), (20, 17881), (Start: 23 @17920 has 7 MA's), (Start: 26 @17926 has 26 MA's), (32, 17980), (34, 17989), (49, 18106),

Gene: Bioscum_22 Start: 17134, Stop: 17367, Start Num: 26

Candidate Starts for Bioscum_22:

(Start: 26 @17134 has 26 MA's), (29, 17167), (49, 17290),

Gene: CarefulCloud_6 Start: 3802, Stop: 4080, Start Num: 22

Candidate Starts for CarefulCloud_6:

(Start: 22 @3802 has 1 MA's), (39, 3922), (41, 3940), (54, 4039),

Gene: Chymera_21 Start: 17166, Stop: 17393, Start Num: 26

Candidate Starts for Chymera_21:

(Start: 26 @17166 has 26 MA's), (48, 17319), (49, 17322), (51, 17337),

Gene: Cumberbatch_21 Start: 17942, Stop: 18202, Start Num: 26

Candidate Starts for Cumberbatch_21:

(2, 17210), (6, 17399), (10, 17477), (13, 17525), (15, 17612), (20, 17897), (Start: 23 @17936 has 7 MA's), (Start: 26 @17942 has 26 MA's), (32, 17996), (34, 18005), (49, 18122),

Gene: CyranoPS_6 Start: 3800, Stop: 4078, Start Num: 22

Candidate Starts for CyranoPS_6:

(Start: 22 @3800 has 1 MA's), (39, 3920),

Gene: DaRealMyers_23 Start: 19333, Stop: 19587, Start Num: 26

Candidate Starts for DaRealMyers_23:

(Start: 26 @19333 has 26 MA's), (45, 19471), (47, 19498), (49, 19510),

Gene: Dryad_32 Start: 21653, Stop: 21880, Start Num: 23

Candidate Starts for Dryad_32:

(Start: 23 @21653 has 7 MA's), (40, 21758), (47, 21797), (49, 21809), (52, 21836),

Gene: Eastland_21 Start: 17911, Stop: 18168, Start Num: 26

Candidate Starts for Eastland_21:

(2, 17194), (6, 17383), (10, 17461), (13, 17509), (20, 17866), (Start: 23 @17905 has 7 MA's), (Start: 26 @17911 has 26 MA's), (32, 17965), (34, 17974), (49, 18091),

Gene: Eklok_21 Start: 17926, Stop: 18183, Start Num: 26

Candidate Starts for Eklok_21:

(2, 17209), (6, 17398), (10, 17476), (13, 17524), (20, 17881), (Start: 23 @17920 has 7 MA's), (Start: 26 @17926 has 26 MA's), (32, 17980), (34, 17989), (49, 18106),

Gene: FrumpyGal_21 Start: 17911, Stop: 18168, Start Num: 26

Candidate Starts for FrumpyGal_21:

(2, 17194), (6, 17383), (10, 17461), (13, 17509), (20, 17866), (Start: 23 @17905 has 7 MA's), (Start: 26 @17911 has 26 MA's), (32, 17965), (34, 17974), (49, 18091),

Gene: Gibson_29 Start: 20816, Stop: 21049, Start Num: 23

Candidate Starts for Gibson_29:

(Start: 23 @20816 has 7 MA's), (46, 20957), (47, 20969), (49, 20981), (52, 21008),

Gene: Greenbelt_28 Start: 20069, Stop: 20296, Start Num: 25

Candidate Starts for Greenbelt_28:

(4, 19364), (8, 19559), (13, 19652), (14, 19685), (17, 19937), (19, 20012), (21, 20030), (Start: 25 @20069 has 1 MA's), (36, 20153), (41, 20189), (49, 20231), (51, 20246),

Gene: HFrancette_21 Start: 17957, Stop: 18214, Start Num: 26
Candidate Starts for HFrancette_21:
(2, 17225), (6, 17414), (10, 17492), (13, 17540), (15, 17627), (20, 17912), (Start: 23 @17951 has 7 MA's), (Start: 26 @17957 has 26 MA's), (32, 18011), (34, 18020), (49, 18137),

Gene: HorseRider_6 Start: 3802, Stop: 4080, Start Num: 22
Candidate Starts for HorseRider_6:
(Start: 22 @3802 has 1 MA's), (39, 3922), (41, 3940),

Gene: Ididsumtinwong_22 Start: 17134, Stop: 17367, Start Num: 26
Candidate Starts for Ididsumtinwong_22:
(Start: 26 @17134 has 26 MA's), (29, 17167), (49, 17290),

Gene: Ignacio_21 Start: 17957, Stop: 18214, Start Num: 26
Candidate Starts for Ignacio_21:
(2, 17225), (6, 17414), (10, 17492), (13, 17540), (15, 17627), (20, 17912), (Start: 23 @17951 has 7 MA's), (Start: 26 @17957 has 26 MA's), (32, 18011), (34, 18020), (49, 18137),

Gene: Jalloh_6 Start: 3801, Stop: 4079, Start Num: 22
Candidate Starts for Jalloh_6:
(Start: 22 @3801 has 1 MA's), (39, 3921), (41, 3939),

Gene: LilJank_36 Start: 31388, Stop: 31618, Start Num: 24
Candidate Starts for LilJank_36:
(Start: 24 @31388 has 2 MA's), (31, 31436), (48, 31541), (49, 31544), (51, 31559), (52, 31571),

Gene: Lishka_22 Start: 17098, Stop: 17331, Start Num: 26
Candidate Starts for Lishka_22:
(Start: 26 @17098 has 26 MA's), (29, 17131), (49, 17254),

Gene: Lizz_29 Start: 20625, Stop: 20858, Start Num: 23
Candidate Starts for Lizz_29:
(Start: 23 @20625 has 7 MA's), (46, 20766), (47, 20778), (49, 20790), (52, 20817),

Gene: Mojarita_22 Start: 17147, Stop: 17407, Start Num: 26
Candidate Starts for Mojarita_22:
(18, 17030), (Start: 26 @17147 has 26 MA's), (35, 17213), (49, 17327),

Gene: Nesbitt_23 Start: 18458, Stop: 18670, Start Num: 26
Candidate Starts for Nesbitt_23:
(Start: 26 @18458 has 26 MA's), (35, 18524), (36, 18536), (47, 18602), (49, 18614), (51, 18629),

Gene: PHTowN_29 Start: 20623, Stop: 20856, Start Num: 23
Candidate Starts for PHTowN_29:
(Start: 23 @20623 has 7 MA's), (46, 20764), (47, 20776), (49, 20788), (52, 20815),

Gene: PapayaSalad_22 Start: 17109, Stop: 17342, Start Num: 26
Candidate Starts for PapayaSalad_22:
(Start: 26 @17109 has 26 MA's), (29, 17142), (49, 17265),

Gene: Picard_22 Start: 17138, Stop: 17398, Start Num: 26
Candidate Starts for Picard_22:

(18, 17024), (Start: 26 @17138 has 26 MA's), (35, 17204), (49, 17318),

Gene: Piccadilly_21 Start: 17910, Stop: 18167, Start Num: 26

Candidate Starts for Piccadilly_21:

(2, 17193), (6, 17382), (10, 17460), (13, 17508), (20, 17865), (Start: 23 @17904 has 7 MA's), (Start: 26 @17910 has 26 MA's), (32, 17964), (34, 17973), (49, 18090),

Gene: Rabbitrun_38 Start: 31471, Stop: 31689, Start Num: 24

Candidate Starts for Rabbitrun_38:

(Start: 24 @31471 has 2 MA's), (31, 31519), (37, 31552), (41, 31585), (42, 31591), (44, 31597), (46, 31603), (47, 31615), (48, 31624), (49, 31627), (51, 31642), (52, 31654), (53, 31666),

Gene: Rooney_29 Start: 20813, Stop: 21046, Start Num: 23

Candidate Starts for Rooney_29:

(Start: 23 @20813 has 7 MA's), (46, 20954), (47, 20966), (49, 20978), (52, 21005),

Gene: SV1_22 Start: 17352, Stop: 17588, Start Num: 26

Candidate Starts for SV1_22:

(Start: 26 @17352 has 26 MA's), (49, 17508),

Gene: SassyC_31 Start: 20941, Stop: 21174, Start Num: 23

Candidate Starts for SassyC_31:

(1, 20191), (3, 20227), (8, 20431), (9, 20464), (11, 20479), (12, 20494), (Start: 23 @20941 has 7 MA's), (31, 20995), (43, 21070), (46, 21079), (49, 21103), (52, 21130),

Gene: Schlegelian_21 Start: 17946, Stop: 18206, Start Num: 26

Candidate Starts for Schlegelian_21:

(2, 17208), (5, 17391), (6, 17397), (7, 17427), (10, 17475), (13, 17523), (15, 17610), (20, 17901), (Start: 23 @17940 has 7 MA's), (Start: 26 @17946 has 26 MA's), (32, 18000), (34, 18009), (49, 18126),

Gene: ShakeNBake_29 Start: 20641, Stop: 20874, Start Num: 23

Candidate Starts for ShakeNBake_29:

(Start: 23 @20641 has 7 MA's), (46, 20782), (47, 20794), (49, 20806), (52, 20833),

Gene: SoJo_23 Start: 19328, Stop: 19582, Start Num: 26

Candidate Starts for SoJo_23:

(Start: 26 @19328 has 26 MA's), (45, 19466), (47, 19493), (49, 19505),

Gene: TailX7_6 Start: 3802, Stop: 4080, Start Num: 22

Candidate Starts for TailX7_6:

(Start: 22 @3802 has 1 MA's), (39, 3922), (41, 3940),

Gene: Trax_36 Start: 31334, Stop: 31564, Start Num: 24

Candidate Starts for Trax_36:

(Start: 24 @31334 has 2 MA's), (31, 31382), (48, 31487), (49, 31490), (51, 31505), (52, 31517),

Gene: Tubberson_23 Start: 19333, Stop: 19587, Start Num: 26

Candidate Starts for Tubberson_23:

(Start: 26 @19333 has 26 MA's), (45, 19471), (47, 19498), (49, 19510),

Gene: TurkishDelight_36 Start: 34260, Stop: 34487, Start Num: 26

Candidate Starts for TurkishDelight_36:

(Start: 26 @34260 has 26 MA's), (48, 34413), (49, 34416),

Gene: Virizion_33 Start: 21012, Stop: 21245, Start Num: 23

Candidate Starts for Virizion_33:

(Start: 23 @21012 has 7 MA's), (46, 21153), (47, 21165), (49, 21177), (52, 21204),

Gene: Vondra_21 Start: 17962, Stop: 18219, Start Num: 26

Candidate Starts for Vondra_21:

(2, 17224), (6, 17413), (10, 17491), (13, 17539), (15, 17626), (20, 17917), (Start: 23 @17956 has 7 MA's), (Start: 26 @17962 has 26 MA's), (32, 18016), (34, 18025), (49, 18142),

Gene: Wentworth_30 Start: 20992, Stop: 21219, Start Num: 23

Candidate Starts for Wentworth_30:

(Start: 23 @20992 has 7 MA's), (27, 21013), (28, 21016), (30, 21040), (34, 21058), (46, 21127), (49, 21151), (50, 21163), (52, 21178),

Gene: Wilkos_30 Start: 20904, Stop: 21131, Start Num: 23

Candidate Starts for Wilkos_30:

(Start: 23 @20904 has 7 MA's), (29, 20940), (31, 20955), (33, 20967), (34, 20970), (49, 21063), (52, 21090),

Gene: Yara_26 Start: 20240, Stop: 20461, Start Num: 26

Candidate Starts for Yara_26:

(16, 20069), (Start: 26 @20240 has 26 MA's), (38, 20336), (49, 20399),