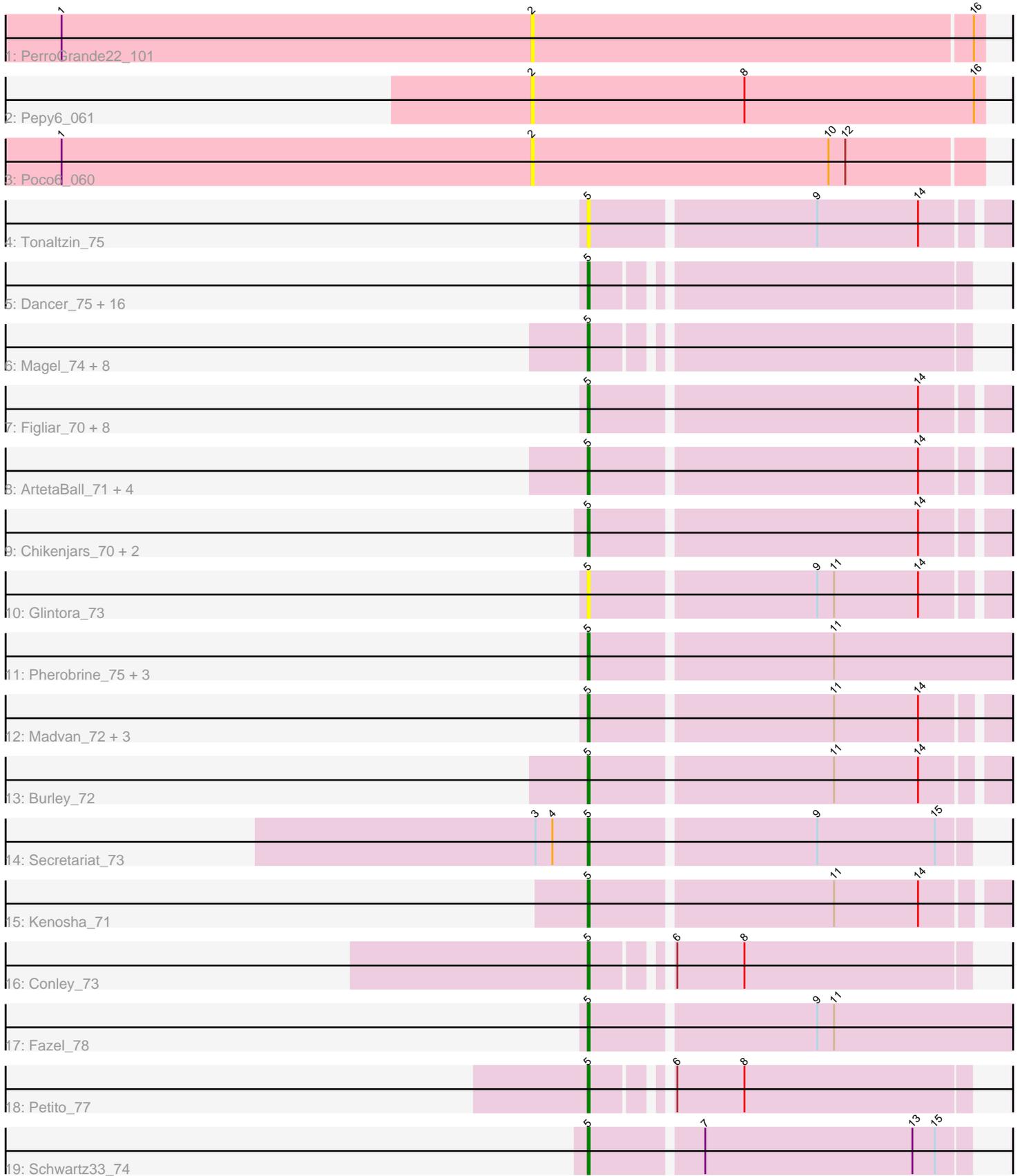


Pham 291169



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 291169 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291169 has 63 members, 15 are drafts.

Phages represented in each track:

- Track 1 : PerroGrande22_101
- Track 2 : Pepy6_061
- Track 3 : Poco6_060
- Track 4 : Tonalzin_75
- Track 5 : Dancer_75, Bugg_78, Talon44_77, OhMyWard_71, JulesRay_75, Trufflozitus_79, ChickyNuggy_78, Captrips_74, Blanky_72, Mossy_75, Citrus_71, Artorias_75, Football_77, FortCran_75, NoPickles_74, Avazak_76, Tairn4Wing_77
- Track 6 : Magel_74, Odesza_72, Eddiemania_74, Tanis_73, Kerry_72, Capybara_73, Roney_73, Gill_73, Gravy_72
- Track 7 : Figliar_70, Aflac_71, BluerMoon_70, TenaciousP_72, EndAve_73, AlainaMarie_71, Jodelie19_70, Rickmore_69, MajinBuu_72
- Track 8 : ArtetaBall_71, Arataki_71, Zeph_74, Hydrus_74, Dialga_73
- Track 9 : Chikenjars_70, Duffington_71, OlgasClover_72
- Track 10 : Glintora_73
- Track 11 : Pherobrine_75, Mysticmoon_76, SweetCrkHerbs_77, Perkunas_76
- Track 12 : Madvan_72, Phepper_73, Untouchable_74, Nadmeg_73
- Track 13 : Burley_72
- Track 14 : Secretariat_73
- Track 15 : Kenosha_71
- Track 16 : Conley_73
- Track 17 : Fazel_78
- Track 18 : Petite_77
- Track 19 : Schwartz33_74

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

The start number called the most often in the published annotations is 5, it was called in 48 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_71, AlainaMarie_71, Arataki_71, ArtetaBall_71, Artorias_75, Avazak_76, Blanky_72, BluerMoon_70, Bugg_78, Burley_72, Captrips_74, Capybara_73, ChickyNuggy_78, Chikenjars_70, Citrus_71, Conley_73, Dancer_75, Dialga_73, Duffington_71, Eddiemania_74, EndAve_73, Fazel_78, Figliar_70, Football_77,

FortCran_75, Gill_73, Glintora_73, Gravy_72, Hydrus_74, Jodelie19_70, JulesRay_75, Kenosha_71, Kerry_72, Madvan_72, Magel_74, MajinBuu_72, Mossy_75, Mysticmoon_76, Nadmeg_73, NoPickles_74, Odesza_72, OhMyWard_71, OlgasClover_72, Perkunas_76, Petite_77, Phepper_73, Pherobrine_75, Rickmore_69, Roney_73, Schwartz33_74, Secretariat_73, SweetCrkHerbs_77, Tairn4Wing_77, Talon44_77, Tanis_73, TenaciousP_72, Tonaltzin_75, Trufflozitus_79, Untouchable_74, Zeph_74,

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

-

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

- Pepy6_061, PerroGrande22_101, Poco6_060,

Summary by start number:

Start 2:

- Found in 3 of 63 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6_061 (CC), PerroGrande22_101 (CC), Poco6_060 (CC),

Start 5:

- Found in 60 of 63 (95.2%) of genes in pham
- Manual Annotations of this start: 48 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aflac_71 (DJ), AlainaMarie_71 (DJ), Arataki_71 (DJ), ArtetaBall_71 (DJ), Artorias_75 (DJ), Avazak_76 (DJ), Blanky_72 (DJ), BluerMoon_70 (DJ), Bugg_78 (DJ), Burley_72 (DJ), Captrips_74 (DJ), Capybara_73 (DJ), ChickyNuggy_78 (DJ), Chickenjars_70 (DJ), Citrus_71 (DJ), Conley_73 (DJ), Dancer_75 (DJ), Dialga_73 (DJ), Duffington_71 (DJ), Eddiemania_74 (DJ), EndAve_73 (DJ), Fazel_78 (DJ), Figliar_70 (DJ), Football_77 (DJ), FortCran_75 (DJ), Gill_73 (DJ), Glintora_73 (DJ), Gravy_72 (DJ), Hydrus_74 (DJ), Jodelie19_70 (DJ), JulesRay_75 (DJ), Kenosha_71 (DJ), Kerry_72 (DJ), Madvan_72 (DJ), Magel_74 (DJ), MajinBuu_72 (DJ), Mossy_75 (DJ), Mysticmoon_76 (DJ), Nadmeg_73 (DJ), NoPickles_74 (DJ), Odesza_72 (DJ), OhMyWard_71 (DJ), OlgasClover_72 (DJ), Perkunas_76 (DJ), Petite_77 (DJ), Phepper_73 (DJ), Pherobrine_75 (DJ), Rickmore_69 (DJ), Roney_73 (DJ), Schwartz33_74 (DJ), Secretariat_73 (DJ), SweetCrkHerbs_77 (DJ), Tairn4Wing_77 (DJ), Talon44_77 (DJ), Tanis_73 (DJ), TenaciousP_72 (DJ), Tonaltzin_75 (DJ), Trufflozitus_79 (DJ), Untouchable_74 (DJ), Zeph_74 (DJ),

Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:

- Start number 5 was manually annotated 48 times for cluster DJ.

Gene Information:

Gene: Aflac_71 Start: 50291, Stop: 50503, Start Num: 5

Candidate Starts for Aflac_71:

(Start: 5 @50291 has 48 MA's), (14, 50462),

Gene: AlainaMarie_71 Start: 50332, Stop: 50544, Start Num: 5

Candidate Starts for AlainaMarie_71:

(Start: 5 @50332 has 48 MA's), (14, 50503),

Gene: Arataki_71 Start: 49761, Stop: 49973, Start Num: 5

Candidate Starts for Arataki_71:

(Start: 5 @49761 has 48 MA's), (14, 49932),

Gene: ArtetaBall_71 Start: 50324, Stop: 50536, Start Num: 5

Candidate Starts for ArtetaBall_71:

(Start: 5 @50324 has 48 MA's), (14, 50495),

Gene: Artorias_75 Start: 50322, Stop: 50510, Start Num: 5

Candidate Starts for Artorias_75:

(Start: 5 @50322 has 48 MA's),

Gene: Avazak_76 Start: 51004, Stop: 51192, Start Num: 5

Candidate Starts for Avazak_76:

(Start: 5 @51004 has 48 MA's),

Gene: Blanky_72 Start: 51613, Stop: 51831, Start Num: 5

Candidate Starts for Blanky_72:

(Start: 5 @51613 has 48 MA's),

Gene: BluerMoon_70 Start: 50243, Stop: 50455, Start Num: 5

Candidate Starts for BluerMoon_70:

(Start: 5 @50243 has 48 MA's), (14, 50414),

Gene: Bugg_78 Start: 50367, Stop: 50555, Start Num: 5

Candidate Starts for Bugg_78:

(Start: 5 @50367 has 48 MA's),

Gene: Burley_72 Start: 49780, Stop: 49992, Start Num: 5

Candidate Starts for Burley_72:

(Start: 5 @49780 has 48 MA's), (11, 49906), (14, 49951),

Gene: Captrips_74 Start: 50152, Stop: 50340, Start Num: 5

Candidate Starts for Captrips_74:

(Start: 5 @50152 has 48 MA's),

Gene: Capybara_73 Start: 49991, Stop: 50179, Start Num: 5

Candidate Starts for Capybara_73:

(Start: 5 @49991 has 48 MA's),

Gene: ChickyNuggy_78 Start: 50746, Stop: 50934, Start Num: 5

Candidate Starts for ChickyNuggy_78:

(Start: 5 @50746 has 48 MA's),

Gene: Chikenjars_70 Start: 50364, Stop: 50576, Start Num: 5
Candidate Starts for Chikenjars_70:
(Start: 5 @50364 has 48 MA's), (14, 50535),

Gene: Citrus_71 Start: 50625, Stop: 50837, Start Num: 5
Candidate Starts for Citrus_71:
(Start: 5 @50625 has 48 MA's),

Gene: Conley_73 Start: 50629, Stop: 50817, Start Num: 5
Candidate Starts for Conley_73:
(Start: 5 @50629 has 48 MA's), (6, 50662), (8, 50698),

Gene: Dancer_75 Start: 50059, Stop: 50247, Start Num: 5
Candidate Starts for Dancer_75:
(Start: 5 @50059 has 48 MA's),

Gene: Dialga_73 Start: 50343, Stop: 50555, Start Num: 5
Candidate Starts for Dialga_73:
(Start: 5 @50343 has 48 MA's), (14, 50514),

Gene: Duffington_71 Start: 50297, Stop: 50509, Start Num: 5
Candidate Starts for Duffington_71:
(Start: 5 @50297 has 48 MA's), (14, 50468),

Gene: Eddiemania_74 Start: 50969, Stop: 51187, Start Num: 5
Candidate Starts for Eddiemania_74:
(Start: 5 @50969 has 48 MA's),

Gene: EndAve_73 Start: 50519, Stop: 50731, Start Num: 5
Candidate Starts for EndAve_73:
(Start: 5 @50519 has 48 MA's), (14, 50690),

Gene: Fazel_78 Start: 51297, Stop: 51518, Start Num: 5
Candidate Starts for Fazel_78:
(Start: 5 @51297 has 48 MA's), (9, 51414), (11, 51423),

Gene: Figliar_70 Start: 50360, Stop: 50572, Start Num: 5
Candidate Starts for Figliar_70:
(Start: 5 @50360 has 48 MA's), (14, 50531),

Gene: Football_77 Start: 49950, Stop: 50138, Start Num: 5
Candidate Starts for Football_77:
(Start: 5 @49950 has 48 MA's),

Gene: FortCran_75 Start: 50322, Stop: 50510, Start Num: 5
Candidate Starts for FortCran_75:
(Start: 5 @50322 has 48 MA's),

Gene: Gill_73 Start: 50003, Stop: 50191, Start Num: 5
Candidate Starts for Gill_73:
(Start: 5 @50003 has 48 MA's),

Gene: Glintora_73 Start: 50952, Stop: 51164, Start Num: 5
Candidate Starts for Glintora_73:
(Start: 5 @50952 has 48 MA's), (9, 51069), (11, 51078), (14, 51123),

Gene: Gravy_72 Start: 49681, Stop: 49869, Start Num: 5
Candidate Starts for Gravy_72:
(Start: 5 @49681 has 48 MA's),

Gene: Hydrus_74 Start: 50945, Stop: 51157, Start Num: 5
Candidate Starts for Hydrus_74:
(Start: 5 @50945 has 48 MA's), (14, 51116),

Gene: Jodelie19_70 Start: 51527, Stop: 51739, Start Num: 5
Candidate Starts for Jodelie19_70:
(Start: 5 @51527 has 48 MA's), (14, 51698),

Gene: JulesRay_75 Start: 50671, Stop: 50859, Start Num: 5
Candidate Starts for JulesRay_75:
(Start: 5 @50671 has 48 MA's),

Gene: Kenosha_71 Start: 50371, Stop: 50583, Start Num: 5
Candidate Starts for Kenosha_71:
(Start: 5 @50371 has 48 MA's), (11, 50497), (14, 50542),

Gene: Kerry_72 Start: 49744, Stop: 49932, Start Num: 5
Candidate Starts for Kerry_72:
(Start: 5 @49744 has 48 MA's),

Gene: Madvan_72 Start: 49833, Stop: 50045, Start Num: 5
Candidate Starts for Madvan_72:
(Start: 5 @49833 has 48 MA's), (11, 49959), (14, 50004),

Gene: Magel_74 Start: 49918, Stop: 50106, Start Num: 5
Candidate Starts for Magel_74:
(Start: 5 @49918 has 48 MA's),

Gene: MajinBuu_72 Start: 50742, Stop: 50954, Start Num: 5
Candidate Starts for MajinBuu_72:
(Start: 5 @50742 has 48 MA's), (14, 50913),

Gene: Mossy_75 Start: 51825, Stop: 52043, Start Num: 5
Candidate Starts for Mossy_75:
(Start: 5 @51825 has 48 MA's),

Gene: Mysticmoon_76 Start: 51515, Stop: 51736, Start Num: 5
Candidate Starts for Mysticmoon_76:
(Start: 5 @51515 has 48 MA's), (11, 51641),

Gene: Nadmeg_73 Start: 51062, Stop: 51274, Start Num: 5
Candidate Starts for Nadmeg_73:
(Start: 5 @51062 has 48 MA's), (11, 51188), (14, 51233),

Gene: NoPickles_74 Start: 49838, Stop: 50026, Start Num: 5

Candidate Starts for NoPickles_74:
(Start: 5 @49838 has 48 MA's),

Gene: Odesza_72 Start: 49862, Stop: 50050, Start Num: 5
Candidate Starts for Odesza_72:
(Start: 5 @49862 has 48 MA's),

Gene: OhMyWard_71 Start: 51584, Stop: 51802, Start Num: 5
Candidate Starts for OhMyWard_71:
(Start: 5 @51584 has 48 MA's),

Gene: OlgasClover_72 Start: 50869, Stop: 51081, Start Num: 5
Candidate Starts for OlgasClover_72:
(Start: 5 @50869 has 48 MA's), (14, 51040),

Gene: Pepy6_061 Start: 65370, Stop: 65612, Start Num: 2
Candidate Starts for Pepy6_061:
(2, 65370), (8, 65484), (16, 65607),

Gene: Perkunas_76 Start: 50055, Stop: 50246, Start Num: 5
Candidate Starts for Perkunas_76:
(Start: 5 @50055 has 48 MA's), (11, 50175),

Gene: PerroGrande22_101 Start: 66706, Stop: 66945, Start Num: 2
Candidate Starts for PerroGrande22_101:
(1, 66454), (2, 66706), (16, 66940),

Gene: Petito_77 Start: 51575, Stop: 51763, Start Num: 5
Candidate Starts for Petito_77:
(Start: 5 @51575 has 48 MA's), (6, 51608), (8, 51644),

Gene: Phepper_73 Start: 50075, Stop: 50287, Start Num: 5
Candidate Starts for Phepper_73:
(Start: 5 @50075 has 48 MA's), (11, 50201), (14, 50246),

Gene: Pherobrine_75 Start: 51570, Stop: 51791, Start Num: 5
Candidate Starts for Pherobrine_75:
(Start: 5 @51570 has 48 MA's), (11, 51696),

Gene: Poco6_060 Start: 66117, Stop: 66356, Start Num: 2
Candidate Starts for Poco6_060:
(1, 65865), (2, 66117), (10, 66276), (12, 66285),

Gene: Rickmore_69 Start: 48736, Stop: 48948, Start Num: 5
Candidate Starts for Rickmore_69:
(Start: 5 @48736 has 48 MA's), (14, 48907),

Gene: Roney_73 Start: 50028, Stop: 50216, Start Num: 5
Candidate Starts for Roney_73:
(Start: 5 @50028 has 48 MA's),

Gene: Schwartz33_74 Start: 50435, Stop: 50632, Start Num: 5
Candidate Starts for Schwartz33_74:

(Start: 5 @50435 has 48 MA's), (7, 50492), (13, 50603), (15, 50615),

Gene: Secretariat_73 Start: 49782, Stop: 49979, Start Num: 5

Candidate Starts for Secretariat_73:

(3, 49755), (4, 49764), (Start: 5 @49782 has 48 MA's), (9, 49899), (15, 49962),

Gene: SweetCrkHerbs_77 Start: 50067, Stop: 50258, Start Num: 5

Candidate Starts for SweetCrkHerbs_77:

(Start: 5 @50067 has 48 MA's), (11, 50187),

Gene: Tairn4Wing_77 Start: 50160, Stop: 50348, Start Num: 5

Candidate Starts for Tairn4Wing_77:

(Start: 5 @50160 has 48 MA's),

Gene: Talon44_77 Start: 50790, Stop: 50978, Start Num: 5

Candidate Starts for Talon44_77:

(Start: 5 @50790 has 48 MA's),

Gene: Tanis_73 Start: 49848, Stop: 50036, Start Num: 5

Candidate Starts for Tanis_73:

(Start: 5 @49848 has 48 MA's),

Gene: TenaciousP_72 Start: 51489, Stop: 51701, Start Num: 5

Candidate Starts for TenaciousP_72:

(Start: 5 @51489 has 48 MA's), (14, 51660),

Gene: Tonaltzin_75 Start: 50059, Stop: 50271, Start Num: 5

Candidate Starts for Tonaltzin_75:

(Start: 5 @50059 has 48 MA's), (9, 50176), (14, 50230),

Gene: Trufflozitus_79 Start: 50675, Stop: 50863, Start Num: 5

Candidate Starts for Trufflozitus_79:

(Start: 5 @50675 has 48 MA's),

Gene: Untouchable_74 Start: 51072, Stop: 51284, Start Num: 5

Candidate Starts for Untouchable_74:

(Start: 5 @51072 has 48 MA's), (11, 51198), (14, 51243),

Gene: Zeph_74 Start: 50912, Stop: 51124, Start Num: 5

Candidate Starts for Zeph_74:

(Start: 5 @50912 has 48 MA's), (14, 51083),