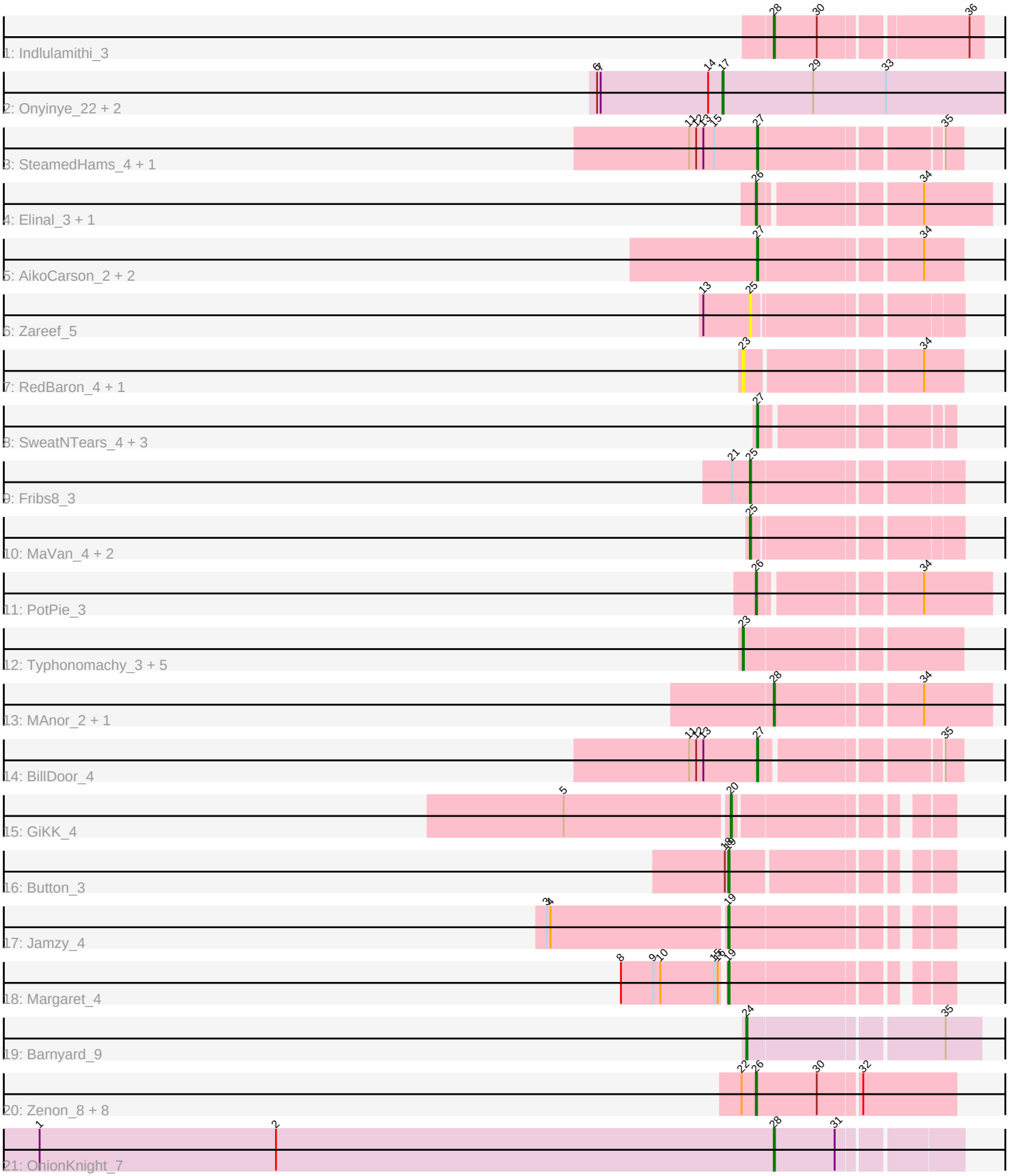
Pham 171562


1: Indlulamithi_3
2: Onyinye_22 + 2
3: SteamedHams_4 + 1
4: Elinal_3 + 1
5: AikoCarson_2 + 2
6: Zareef_5
7: RedBaron_4 + 1
8: SweatNTears_4 + 3
9: Fribs8_3
10: MaVan_4 + 2
11: PotPie_3
12: Typhonomachy_3 + 5
13: MAnor_2 + 1
14: BillDoor_4
15: GiKK_4
16: Button_3
17: Jamzy_4
18: Margaret_4
19: Barnyard_9
20: Zenon_8 + 8
21: OnionKnight_7

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 171562 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171562 has 47 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Indlulamithi_3
• Track 2 : Onyinye_22, Leopard_21, Aikoy_21
• Track 3 : SteamedHams_4, Tolls_4
• Track 4 : Elinal_3, KayGee_2
• Track 5 : AikoCarson_2, Amok_2, Emalyn_2
• Track 6 : Zareef_5
• Track 7 : RedBaron_4, MunkgeeRoachy_4
• Track 8 : SweatNTears_4, Horseradish_3, MScarn_4, Yummy_3
• Track 9 : Fribs8_3
• Track 10 : MaVan_4, Azira_4, Nibbles_4
• Track 11 : PotPie_3
• Track 12 : Typhonomachy_3, Sopespian_3, GoldHunter_3, PsychoKiller_3, Burnsey_3, Eliott_3
• Track 13 : MAnor_2, Pons_2
• Track 14 : BillDoor_4
• Track 15 : GiKK_4
• Track 16 : Button_3
• Track 17 : Jamzy_4
• Track 18 : Margaret_4
• Track 19 : Barnyard_9
• Track 20 : Zenon_8, MontyDev_8, Send513_7, Candle_7, Riparian_7, Weiss13_7, Yelo_7, Papyrus_8, Nilo_8
• Track 21 : OnionKnight_7

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 10 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Candle_7, Elinal_3, KayGee_2, MontyDev_8, Nilo_8, Papyrus_8, PotPie_3, Riparian_7, Send513_7, Weiss13_7, Yelo_7, Zenon_8,

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

•

Genes that do not have the "Most Annotated" start:
• AikoCarson_2, Aikoy_21, Amok_2, Azira_4, Barnyard_9, BillDoor_4, Burnsey_3, Button_3, Eliott_3, Emalyn_2, Fribs8_3, GiKK_4, GoldHunter_3, Horseradish_3, Indlulamithi_3, Jamzy_4, Leopard_21, MAnor_2, MScarn_4, MaVan_4, Margaret_4, MunkgeeRoachy_4, Nibbles_4, OnionKnight_7, Onyinye_22, Pons_2, PsychoKiller_3, RedBaron_4, Sopespian_3, SteamedHams_4, SweatNTears_4, Tolls_4, Typhonomachy_3, Yummy_3, Zareef_5,

Summary by start number:

Start 17:
• Found in 3 of 47 (6.4%) of genes in pham
• Manual Annotations of this start: 3 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikoy_21 (AE), Leopard_21 (AE), Onyinye_22 (AE),

Start 19:
• Found in 3 of 47 (6.4%) of genes in pham
• Manual Annotations of this start: 3 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Button_3 (CT), Jamzy_4 (CT), Margaret_4 (CT),

Start 20:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GiKK_4 (CT),

Start 23:
• Found in 8 of 47 (17.0%) of genes in pham
• Manual Annotations of this start: 1 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Burnsey_3 (CT), Eliott_3 (CT), GoldHunter_3 (CT), MunkgeeRoachy_4 (CT), PsychoKiller_3 (CT), RedBaron_4 (CT), Sopespian_3 (CT), Typhonomachy_3 (CT),

Start 24:
• Found in 1 of 47 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Barnyard_9 (H2),

Start 25:
• Found in 5 of 47 (10.6%) of genes in pham
• Manual Annotations of this start: 4 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azira_4 (CT), Fribs8_3 (CT), MaVan_4 (CT), Nibbles_4 (CT), Zareef_5 (CT),

Start 26:
• Found in 12 of 47 (25.5%) of genes in pham
• Manual Annotations of this start: 10 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Candle_7 (R), Elinal_3 (CT), KayGee_2 (CT), MontyDev_8 (R), Nilo_8 (R), Papyrus_8 (R), PotPie_3 (CT), Riparian_7 (R), Send513_7 (R), Weiss13_7 (R), Yelo_7 (R), Zenon_8 (R),

Start 27:
• Found in 10 of 47 (21.3%) of genes in pham
• Manual Annotations of this start: 10 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AikoCarson_2 (CT), Amok_2 (CT), BillDoor_4 (CT), Emalyn_2 (CT), Horseradish_3 (CT), MScarn_4 (CT), SteamedHams_4 (CT), SweatNTears_4 (CT), Tolls_4 (CT), Yummy_3 (CT),

Start 28:
• Found in 4 of 47 (8.5%) of genes in pham
• Manual Annotations of this start: 3 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Indlulamithi_3 (AC), MAnor_2 (CT), OnionKnight_7 (singleton), Pons_2 (CT),

Summary by clusters:

There are 6 clusters represented in this pham: AC, AE, H2, singleton, R, CT,

Info for manual annotations of cluster AC:
•Start number 28 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:
•Start number 17 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster CT:
•Start number 19 was manually annotated 3 times for cluster CT.
•Start number 20 was manually annotated 1 time for cluster CT.
•Start number 23 was manually annotated 1 time for cluster CT.
•Start number 25 was manually annotated 4 times for cluster CT.
•Start number 26 was manually annotated 2 times for cluster CT.
•Start number 27 was manually annotated 10 times for cluster CT.
•Start number 28 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster H2:
•Start number 24 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster R:
•Start number 26 was manually annotated 8 times for cluster R.

Gene Information:

Gene: AikoCarson_2 Start: 534, Stop: 692, Start Num: 27

Candidate Starts for AikoCarson_2:
(Start: 27 @534 has 10 MA's), (34, 660),

Gene: Aikoy_21 Start: 13873, Stop: 14109, Start Num: 17
Candidate Starts for Aikoy_21:
(6, 13768), (7, 13771), (14, 13861), (Start: 17 @13873 has 3 MA's), (29, 13948), (33, 14008),

Gene: Amok_2 Start: 535, Stop: 693, Start Num: 27
Candidate Starts for Amok_2:
(Start: 27 @535 has 10 MA's), (34, 661),

Gene: Azira_4 Start: 1179, Stop: 1337, Start Num: 25
Candidate Starts for Azira_4:
(Start: 25 @1179 has 4 MA's),

Gene: Barnyard_9 Start: 6285, Stop: 6467, Start Num: 24
Candidate Starts for Barnyard_9:
(Start: 24 @6285 has 1 MA's), (35, 6438),

Gene: BillDoor_4 Start: 852, Stop: 998, Start Num: 27
Candidate Starts for BillDoor_4:
(11, 795), (12, 801), (13, 807), (Start: 27 @852 has 10 MA's), (35, 984),

Gene: Burnsey_3 Start: 829, Stop: 999, Start Num: 23
Candidate Starts for Burnsey_3:
(Start: 23 @829 has 1 MA's),

Gene: Button_3 Start: 752, Stop: 910, Start Num: 19
Candidate Starts for Button_3:
(18, 749), (Start: 19 @752 has 3 MA's),

Gene: Candle_7 Start: 5193, Stop: 5354, Start Num: 26
Candidate Starts for Candle_7:
(22, 5181), (Start: 26 @5193 has 10 MA's), (30, 5244), (32, 5277),

Gene: Elinal_3 Start: 643, Stop: 819, Start Num: 26
Candidate Starts for Elinal_3:
(Start: 26 @643 has 10 MA's), (34, 763),

Gene: Eliott_3 Start: 829, Stop: 999, Start Num: 23
Candidate Starts for Eliott_3:
(Start: 23 @829 has 1 MA's),

Gene: Emalyn_2 Start: 534, Stop: 692, Start Num: 27
Candidate Starts for Emalyn_2:
(Start: 27 @534 has 10 MA's), (34, 660),

Gene: Fribs8_3 Start: 954, Stop: 1115, Start Num: 25
Candidate Starts for Fribs8_3:
(21, 939), (Start: 25 @954 has 4 MA's),

Gene: GiKK_4 Start: 1010, Stop: 1165, Start Num: 20
Candidate Starts for GiKK_4:

(5, 875), (Start: 20 @1010 has 1 MA's),

Gene: GoldHunter_3 Start: 829, Stop: 999, Start Num: 23
Candidate Starts for GoldHunter_3:
(Start: 23 @829 has 1 MA's),

Gene: Horseradish_3 Start: 758, Stop: 898, Start Num: 27
Candidate Starts for Horseradish_3:
(Start: 27 @758 has 10 MA's),

Gene: Indlulamithi_3 Start: 3257, Stop: 3418, Start Num: 28
Candidate Starts for Indlulamithi_3:
(Start: 28 @3257 has 3 MA's), (30, 3293), (36, 3407),

Gene: Jamzy_4 Start: 1014, Stop: 1175, Start Num: 19
Candidate Starts for Jamzy_4:
(3, 867), (4, 870), (Start: 19 @1014 has 3 MA's),

Gene: KayGee_2 Start: 643, Stop: 819, Start Num: 26
Candidate Starts for KayGee_2:
(Start: 26 @643 has 10 MA's), (34, 763),

Gene: Leopard_21 Start: 14158, Stop: 14394, Start Num: 17
Candidate Starts for Leopard_21:
(6, 14053), (7, 14056), (14, 14146), (Start: 17 @14158 has 3 MA's), (29, 14233), (33, 14293),

Gene: MAnor_2 Start: 640, Stop: 810, Start Num: 28
Candidate Starts for MAnor_2:
(Start: 28 @640 has 3 MA's), (34, 754),

Gene: MScarn_4 Start: 852, Stop: 992, Start Num: 27
Candidate Starts for MScarn_4:
(Start: 27 @852 has 10 MA's),

Gene: MaVan_4 Start: 1180, Stop: 1338, Start Num: 25
Candidate Starts for MaVan_4:
(Start: 25 @1180 has 4 MA's),

Gene: Margaret_4 Start: 1387, Stop: 1548, Start Num: 19
Candidate Starts for Margaret_4:
(8, 1303), (9, 1330), (10, 1336), (15, 1381), (16, 1384), (Start: 19 @1387 has 3 MA's),

Gene: MontyDev_8 Start: 5192, Stop: 5353, Start Num: 26
Candidate Starts for MontyDev_8:
(22, 5180), (Start: 26 @5192 has 10 MA's), (30, 5243), (32, 5276),

Gene: MunkgeeRoachy_4 Start: 877, Stop: 1047, Start Num: 23
Candidate Starts for MunkgeeRoachy_4:
(Start: 23 @877 has 1 MA's), (34, 1015),

Gene: Nibbles_4 Start: 1180, Stop: 1338, Start Num: 25
Candidate Starts for Nibbles_4:
(Start: 25 @1180 has 4 MA's),

Gene: Nilo_8 Start: 5193, Stop: 5354, Start Num: 26
Candidate Starts for Nilo_8:
(22, 5181), (Start: 26 @5193 has 10 MA's), (30, 5244), (32, 5277),

Gene: OnionKnight_7 Start: 5413, Stop: 5559, Start Num: 28
Candidate Starts for OnionKnight_7:
(1, 4798), (2, 4996), (Start: 28 @5413 has 3 MA's), (31, 5464),

Gene: Onyinye_22 Start: 14039, Stop: 14275, Start Num: 17
Candidate Starts for Onyinye_22:
(6, 13934), (7, 13937), (14, 14027), (Start: 17 @14039 has 3 MA's), (29, 14114), (33, 14174),

Gene: Papyrus_8 Start: 5193, Stop: 5354, Start Num: 26
Candidate Starts for Papyrus_8:
(22, 5181), (Start: 26 @5193 has 10 MA's), (30, 5244), (32, 5277),

Gene: Pons_2 Start: 640, Stop: 810, Start Num: 28
Candidate Starts for Pons_2:
(Start: 28 @640 has 3 MA's), (34, 754),

Gene: PotPie_3 Start: 1499, Stop: 1675, Start Num: 26
Candidate Starts for PotPie_3:
(Start: 26 @1499 has 10 MA's), (34, 1619),

Gene: PsychoKiller_3 Start: 829, Stop: 999, Start Num: 23
Candidate Starts for PsychoKiller_3:
(Start: 23 @829 has 1 MA's),

Gene: RedBaron_4 Start: 877, Stop: 1044, Start Num: 23
Candidate Starts for RedBaron_4:
(Start: 23 @877 has 1 MA's), (34, 1012),

Gene: Riparian_7 Start: 4890, Stop: 5051, Start Num: 26
Candidate Starts for Riparian_7:
(22, 4878), (Start: 26 @4890 has 10 MA's), (30, 4941), (32, 4974),

Gene: Send513_7 Start: 5193, Stop: 5354, Start Num: 26
Candidate Starts for Send513_7:
(22, 5181), (Start: 26 @5193 has 10 MA's), (30, 5244), (32, 5277),

Gene: Sopespian_3 Start: 829, Stop: 999, Start Num: 23
Candidate Starts for Sopespian_3:
(Start: 23 @829 has 1 MA's),

Gene: SteamedHams_4 Start: 852, Stop: 1004, Start Num: 27
Candidate Starts for SteamedHams_4:
(11, 795), (12, 801), (13, 807), (15, 816), (Start: 27 @852 has 10 MA's), (35, 990),

Gene: SweatNTears_4 Start: 1378, Stop: 1518, Start Num: 27
Candidate Starts for SweatNTears_4:
(Start: 27 @1378 has 10 MA's),

Gene: Tolls_4 Start: 852, Stop: 1004, Start Num: 27
Candidate Starts for Tolls_4:
(11, 795), (12, 801), (13, 807), (15, 816), (Start: 27 @852 has 10 MA's), (35, 990),

Gene: Typhonomachy_3 Start: 829, Stop: 999, Start Num: 23
Candidate Starts for Typhonomachy_3:
(Start: 23 @829 has 1 MA's),

Gene: Weiss13_7 Start: 4881, Stop: 5042, Start Num: 26
Candidate Starts for Weiss13_7:
(22, 4869), (Start: 26 @4881 has 10 MA's), (30, 4932), (32, 4965),

Gene: Yelo_7 Start: 5193, Stop: 5354, Start Num: 26
Candidate Starts for Yelo_7:
(22, 5181), (Start: 26 @5193 has 10 MA's), (30, 5244), (32, 5277),

Gene: Yummy_3 Start: 758, Stop: 898, Start Num: 27
Candidate Starts for Yummy_3:
(Start: 27 @758 has 10 MA's),

Gene: Zareef_5 Start: 1180, Stop: 1338, Start Num: 25
Candidate Starts for Zareef_5:
(13, 1141), (Start: 25 @1180 has 4 MA's),

Gene: Zenon_8 Start: 5193, Stop: 5354, Start Num: 26
Candidate Starts for Zenon_8:
(22, 5181), (Start: 26 @5193 has 10 MA's), (30, 5244), (32, 5277),