



## Supplementary Item 1a: Genelist of 451 transcripts differentially expressed between AMs and PMs - with p adjusted value &lt;0.01 and fold change &gt;9

| Transcript ID | Gene_assignment  | Gene name  | Gene symbol  | p Value | Fold change | Description   |
|---------------|--|--|--------------|---------|-------------|---------------|
| 15121321      | ENSECAT00000013628 // LOC100052888 // cholesterol 7-alpha-monooxygenase-like // --- //     | cholesterol 7-alpha-monooxygenase-like           | LOC100052888 | <0,01   | 49.5489     | AM up vs PM   |
| 15080122      | XM_001487907 // LOC100049847 // platelet glycoprotein 4-like // --- // 100049847 /// EN    | platelet glycoprotein 4-like                     | LOC100049847 | <0,01   | 38.3266     | AM up vs PM   |
| 15066795      | XM_001916447 // LOC100057831 // n-acylethanolamine-hydrolyzing acid amidase-like // --- // | n-acylethanolamine-hydrolyzing acid amidase-like | LOC100057831 | <0,01   | 25.7024     | AM up vs PM   |
| 15088442      | ENSECAT00000011655 // MCOLN2 // mucolipin 2 // --- // 100052719 /// XM_001496833 // MCO    | mucolipin 2                                      | MCOLN2       | <0,01   | 21.8081     | AM up vs PM   |
| 15126979      | NM_001111301 // TLR8 // toll-like receptor 8 // --- // 100054367 /// ENSECAT00000009327    | toll-like receptor 8                             | TLR8         | <0,01   | 20.9228     | AM up vs PM   |
| 14966871      | ---  |  |              | <0,01   | 17.1072     | AM up vs PM   |
| 15134514      | ---  |  |              | <0,01   | 16.2329     | AM up vs PM   |
| 15051976      | ENSECAT00000005057 // PTGR1 // prostaglandin reductase 1 // --- //                         | prostaglandin reductase 1                        | PTGR1        | <0,01   | 14.2633     | AM up vs PM   |
| 15023455      | XM_001501495 // LOC100071667 // complement C1q subcomponent subunit B-like // --- // 10    | complement C1q subcomponent subunit B-like       | LOC100071667 | <0,01   | 14.0384     | AM up vs PM   |
| 15100625      | ENSECAT00000015675 // PLBD1 // phospholipase B domain containing 1 // --- // 100066968     | phospholipase B domain containing 1              | PLBD1        | <0,01   | 11.7085     | AM up vs PM   |
| 14943095      | ENSECAT00000011152 // EGR2 // early growth response 2 // --- // 100062890 /// XM_001503    | early growth response 2                          | EGR2         | <0,01   | 10.7066     | AM up vs PM   |
| 15023462      | XM_001504261 // LOC100058097 // complement C1q subcomponent subunit A-like // --- // 10    | complement C1q subcomponent subunit A-like       | LOC100058097 | <0,01   | 10.5162     | AM up vs PM   |
| 14969419      | XM_001914718 // LOC100060647 // catalase-like // --- // 100060647 /// ENSECAT00000002124   | catalase-like                                    | LOC100060647 | <0,01   | 9.51748     | AM up vs PM   |
| 15023458      | XM_001504258 // LOC100058056 // complement C1q subcomponent subunit C-like // --- // 10    | complement C1q subcomponent subunit C-like       | LOC100058056 | <0,01   | 9.32528     | AM up vs PM   |
| 14939930      | ---  |  |              | <0,01   | -9.0112     | AM down vs PM |
| 14938040      | ---  |  |              | <0,01   | -9.09147    | AM down vs PM |
| 15131203      | ---  |  |              | <0,01   | -9.10315    | AM down vs PM |
| 14950082      | ---  |  |              | <0,01   | -9.12671    | AM down vs PM |
| 15087535      | ---  |  |              | <0,01   | -9.15312    | AM down vs PM |
| 15033411      | ---  |  |              | <0,01   | -9.18649    | AM down vs PM |
| 15060455      | ---  |  |              | <0,01   | -9.19773    | AM down vs PM |
| 15136936      | ---  |  |              | <0,01   | -9.25399    | AM down vs PM |
| 14934920      | ---  |  |              | <0,01   | -9.27641    | AM down vs PM |
| 14938232      | ---  |  |              | <0,01   | -9.31958    | AM down vs PM |
| 15126812      | ---  |  |              | <0,01   | -9.3368     | AM down vs PM |
| 15082470      | ---  |  |              | <0,01   | -9.33748    | AM down vs PM |
| 14989338      | ---  |  |              | <0,01   | -9.33968    | AM down vs PM |
| 15106374      | ---  |  |              | <0,01   | -9.42303    | AM down vs PM |
| 15001110      | ---  |  |              | <0,01   | -9.44207    | AM down vs PM |
| 14942828      | ---  |  |              | <0,01   | -9.44707    | AM down vs PM |
| 15006694      | ---  |  |              | <0,01   | -9.4937     | AM down vs PM |
| 15080985      | ---  |  |              | <0,01   | -9.52693    | AM down vs PM |
| 15071325      | ---  |  |              | <0,01   | -9.52777    | AM down vs PM |
| 15103641      | NR_032873 // MIR7-2 // microRNA mir-7-2 // --- // 100315008                                | microRNA mir-7-2                                 | MIR7-2       | <0,01   | -9.67189    | AM down vs PM |
| 15100530      | ---  |  |              | <0,01   | -9.69646    | AM down vs PM |
| 15123607      | ---  |  |              | <0,01   | -9.69954    | AM down vs PM |
| 15018734      | ---  |  |              | <0,01   | -9.70939    | AM down vs PM |
| 15120364      | ENSECAT00000018691 // TCF7L2 // transcription factor 7-like 2 (T-cell specific, HMG-box    | transcription factor 7-like 2                    | TCF7L2       | <0,01   | -9.74285    | AM down vs PM |
| 14928021      | ---  |  |              | <0,01   | -9.77627    | AM down vs PM |
| 15034555      | ---  |  |              | <0,01   | -9.82738    | AM down vs PM |
| 15082266      | ---  |  |              | <0,01   | -9.83919    | AM down vs PM |
| 15009515      | ---  |  |              | <0,01   | -9.85658    | AM down vs PM |
| 15116897      | ---  |  |              | <0,01   | -9.85674    | AM down vs PM |
| 14972822      | ---  |  |              | <0,01   | -9.86893    | AM down vs PM |
| 15136724      | ---  |  |              | <0,01   | -9.87303    | AM down vs PM |
| 15137306      | ---  |  |              | <0,01   | -9.89187    | AM down vs PM |
| 15123696      | ---  |  |              | <0,01   | -9.94105    | AM down vs PM |
| 15056884      | ---  |  |              | <0,01   | -9.94743    | AM down vs PM |
| 15076475      | ---  |  |              | <0,01   | -9.96444    | AM down vs PM |
| 15131878      | ---  |  |              | <0,01   | -9.97001    | AM down vs PM |
| 14929483      | ---  |  |              | <0,01   | -9.97779    | AM down vs PM |
| 14990746      | ---  |  |              | <0,01   | -9.98512    | AM down vs PM |
| 15035443      | ---  |  |              | <0,01   | -10.0111    | AM down vs PM |
| 15091422      | ---  |  |              | <0,01   | -10.0137    | AM down vs PM |

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|----------|---|---|--------------|--|-------|------------------------|
| 15136932 | ---   |   |              |  | <0,01 | -10.0562 AM down vs PM |
| 15021574 | ---   |   |              |  | <0,01 | -10.125 AM down vs PM  |
| 15119937 | ---   |   |              |  | <0,01 | -10.1436 AM down vs PM |
| 15131829 | ---   |   |              |  | <0,01 | -10.1701 AM down vs PM |
| 15136330 | ---   |   |              |  | <0,01 | -10.1879 AM down vs PM |
| 15136396 | ---   |   |              |  | <0,01 | -10.1879 AM down vs PM |
| 14925107 | ---   |   |              |  | <0,01 | -10.2665 AM down vs PM |
| 15133248 | ---   |   |              |  | <0,01 | -10.2836 AM down vs PM |
| 15133576 | ---   |   |              |  | <0,01 | -10.3176 AM down vs PM |
| 15094905 | NM_001257078 // CXCR7 // chemokine (C-X-C motif) receptor 7 // --- // 100057501 /// ENS | chemokine (C-X-C motif) receptor 7      | CXCR7        |  | <0,01 | -10.324 AM down vs PM  |
| 14986670 | ---   |   |              |  | <0,01 | -10.3378 AM down vs PM |
| 15013214 | ---   |   |              |  | <0,01 | -10.3447 AM down vs PM |
| 14938015 | ---   |   |              |  | <0,01 | -10.365 AM down vs PM  |
| 15016292 | ---   |   |              |  | <0,01 | -10.3722 AM down vs PM |
| 14969935 | ---   |   |              |  | <0,01 | -10.43 AM down vs PM   |
| 15136988 | ---   |   |              |  | <0,01 | -10.4448 AM down vs PM |
| 14927731 | ---   |   |              |  | <0,01 | -10.4651 AM down vs PM |
| 14942998 | ---   |   |              |  | <0,01 | -10.4891 AM down vs PM |
| 15045391 | ---   |   |              |  | <0,01 | -10.5134 AM down vs PM |
| 14937067 | ---   |   |              |  | <0,01 | -10.5778 AM down vs PM |
| 15137284 | ---   |   |              |  | <0,01 | -10.614 AM down vs PM  |
| 15006532 | ---   |   |              |  | <0,01 | -10.9163 AM down vs PM |
| 15071344 | ---   |   |              |  | <0,01 | -10.9631 AM down vs PM |
| 15020143 | ---   |   |              |  | <0,01 | -10.9861 AM down vs PM |
| 15003586 | ---   |   |              |  | <0,01 | -11.0115 AM down vs PM |
| 15030212 | XM_001505026 // LOC100052624 // histone H2A type 1-like // --- // 100052624 /// ENSECAT | histone H2A type 1-like                 | LOC100052624 |  | <0,01 | -11.0312 AM down vs PM |
| 15029956 | ---   |   |              |  | <0,01 | -11.0774 AM down vs PM |
| 14934714 | ---   |   |              |  | <0,01 | -11.1017 AM down vs PM |
| 15011590 | ---   |   |              |  | <0,01 | -11.1183 AM down vs PM |
| 15136368 | ---   |   |              |  | <0,01 | -11.1494 AM down vs PM |
| 14981433 | ---   |   |              |  | <0,01 | -11.2217 AM down vs PM |
| 15057108 | ---   |   |              |  | <0,01 | -11.2319 AM down vs PM |
| 14982053 | ---   |   |              |  | <0,01 | -11.2916 AM down vs PM |
| 15015661 | ---   |   |              |  | <0,01 | -11.3752 AM down vs PM |
| 15030285 | XM_003363755 // LOC100629501 // olfactory receptor 2W1-like // --- // 100629501 /// ENS | olfactory receptor 2W1-like             | LOC100629501 |  | <0,01 | -11.4432 AM down vs PM |
| 15076479 | XM_001489227 // SEMA3C // sema domain, immunoglobulin domain (Ig), short basic domain,  | sema domain, immunoglobulin domain (Ig) | SEMA3C       |  | <0,01 | -11.5196 AM down vs PM |
| 15128302 | ---   |   |              |  | <0,01 | -11.5748 AM down vs PM |
| 14986175 | ---   |   |              |  | <0,01 | -11.63 AM down vs PM   |
| 15120682 | ---   |   |              |  | <0,01 | -11.7021 AM down vs PM |
| 14934934 | ---   |   |              |  | <0,01 | -11.7342 AM down vs PM |
| 14945248 | ---   |   |              |  | <0,01 | -11.7834 AM down vs PM |
| 15120725 | ---   |   |              |  | <0,01 | -11.8124 AM down vs PM |
| 15077680 | ---   |   |              |  | <0,01 | -11.8639 AM down vs PM |
| 15106867 | ---   |   |              |  | <0,01 | -11.883 AM down vs PM  |
| 15136798 | ---   |   |              |  | <0,01 | -11.923 AM down vs PM  |
| 15129744 | ---   |   |              |  | <0,01 | -11.9658 AM down vs PM |
| 15081996 | ---   |   |              |  | <0,01 | -12.0043 AM down vs PM |
| 14987283 | ---   |   |              |  | <0,01 | -12.0545 AM down vs PM |
| 15136978 | ---   |   |              |  | <0,01 | -12.1102 AM down vs PM |
| 14943919 | ---   |   |              |  | <0,01 | -12.2044 AM down vs PM |
| 14962196 | ---   |   |              |  | <0,01 | -12.3211 AM down vs PM |
| 15136494 | ---   |   |              |  | <0,01 | -12.3273 AM down vs PM |
| 15081440 | ---   |   |              |  | <0,01 | -12.3633 AM down vs PM |
| 15137740 | ---   |   |              |  | <0,01 | -12.4339 AM down vs PM |
| 14979733 | ---   |   |              |  | <0,01 | -12.5955 AM down vs PM |
| 15107853 | ---   |   |              |  | <0,01 | -12.5985 AM down vs PM |
| 15070812 | ---   |   |              |  | <0,01 | -12.634 AM down vs PM  |

|          |   |       |                        |
|----------|---|-------|------------------------|
| 15031964 | ---   | <0,01 | -12.6654 AM down vs PM |
| 15029693 | ---   | <0,01 | -12.67 AM down vs PM   |
| 15136558 | ---   | <0,01 | -12.67 AM down vs PM   |
| 15101493 | ---   | <0,01 | -12.7499 AM down vs PM |
| 15136774 | ---   | <0,01 | -12.7733 AM down vs PM |
| 15137338 | ---   | <0,01 | -12.7785 AM down vs PM |
| 14928003 | ---   | <0,01 | -12.8005 AM down vs PM |
| 14934917 | ---   | <0,01 | -12.8454 AM down vs PM |
| 15006335 | ---   | <0,01 | -12.8522 AM down vs PM |
| 15136364 | ---   | <0,01 | -12.8522 AM down vs PM |
| 15063181 | ---   | <0,01 | -12.865 AM down vs PM  |
| 15053644 | XR_036256 // LOC100068798 // calponin-3-like // --- // 100068798 /// XM_001490827 // LO | <0,01 | -12.8677 AM down vs PM |
| 15006938 | ---   | <0,01 | -12.8778 AM down vs PM |
| 15033037 | ---   | <0,01 | -12.9188 AM down vs PM |
| 14949316 | ---   | <0,01 | -12.9467 AM down vs PM |
| 15003625 | ---   | <0,01 | -13.0727 AM down vs PM |
| 15045573 | ---   | <0,01 | -13.1091 AM down vs PM |
| 15057372 | ---   | <0,01 | -13.1106 AM down vs PM |
| 15129919 | ---   | <0,01 | -13.1292 AM down vs PM |
| 15060545 | ---   | <0,01 | -13.2365 AM down vs PM |
| 14937073 | ---   | <0,01 | -13.2641 AM down vs PM |
| 15019934 | ---   | <0,01 | -13.3434 AM down vs PM |
| 15008985 | ---   | <0,01 | -13.4618 AM down vs PM |
| 15128327 | ---   | <0,01 | -13.4813 AM down vs PM |
| 15030305 | ---   | <0,01 | -13.5114 AM down vs PM |
| 15128934 | ---   | <0,01 | -13.5188 AM down vs PM |
| 14929431 | ---   | <0,01 | -13.5294 AM down vs PM |
| 15001469 | ---   | <0,01 | -13.6178 AM down vs PM |
| 14948030 | ---   | <0,01 | -13.6582 AM down vs PM |
| 15137280 | ---   | <0,01 | -13.6852 AM down vs PM |
| 15054737 | ---   | <0,01 | -13.7121 AM down vs PM |
| 15044653 | ---   | <0,01 | -13.7904 AM down vs PM |
| 15079137 | ---   | <0,01 | -13.915 AM down vs PM  |
| 15005672 | ---   | <0,01 | -13.9337 AM down vs PM |
| 15060218 | NM_001081780 // LUM // lumican // --- // 100009681 /// ENSECAT00000019349 // LUM // lum | <0,01 | -13.935 AM down vs PM  |
| 15110227 | ---   | <0,01 | -14.0682 AM down vs PM |
| 15121666 | ---   | <0,01 | -14.2476 AM down vs PM |
| 15137750 | ---   | <0,01 | -14.4959 AM down vs PM |
| 14939195 | ---   | <0,01 | -14.5698 AM down vs PM |
| 14945347 | ---   | <0,01 | -14.7454 AM down vs PM |
| 15121695 | ---   | <0,01 | -14.8225 AM down vs PM |
| 15128857 | ---   | <0,01 | -14.966 AM down vs PM  |
| 15136466 | ---   | <0,01 | -14.9687 AM down vs PM |
| 15132461 | ---   | <0,01 | -15.1515 AM down vs PM |
| 15077411 | ---   | <0,01 | -15.1611 AM down vs PM |
| 15062898 | ---   | <0,01 | -15.2624 AM down vs PM |
| 15137382 | ---   | <0,01 | -15.2918 AM down vs PM |
| 15137596 | ---   | <0,01 | -15.2918 AM down vs PM |
| 15128427 | ---   | <0,01 | -15.3044 AM down vs PM |
| 15062932 | ---   | <0,01 | -15.4685 AM down vs PM |
| 15006034 | ---   | <0,01 | -15.6644 AM down vs PM |
| 15054877 | ---   | <0,01 | -15.7366 AM down vs PM |
| 14953056 | ---   | <0,01 | -15.7403 AM down vs PM |
| 15029587 | ---   | <0,01 | -15.771 AM down vs PM  |
| 14956069 | ---   | <0,01 | -15.8166 AM down vs PM |
| 14998899 | ---   | <0,01 | -15.8931 AM down vs PM |
| 15133022 | ---   | <0,01 | -15.9749 AM down vs PM |

|          |   |                                 |              |       |                        |
|----------|---|---------------------------------|--------------|-------|------------------------|
| 15068686 | ---   |                                 |              | <0,01 | -16.0166 AM down vs PM |
| 15003583 | ---   |                                 |              | <0,01 | -16.0171 AM down vs PM |
| 15132692 | ---   |                                 |              | <0,01 | -16.0431 AM down vs PM |
| 14957420 | ---   |                                 |              | <0,01 | -16.0549 AM down vs PM |
| 15088030 | ---   |                                 |              | <0,01 | -16.318 AM down vs PM  |
| 14981953 | ENSECAT00000019198 // ADAM19 // ADAM metallopeptidase domain 19 // --- // ---           | ADAM metallopeptidase domain 19 | ADAM19       | <0,01 | -16.3272 AM down vs PM |
| 15078648 | ---   |                                 |              | <0,01 | -16.6413 AM down vs PM |
| 15021779 | ---   |                                 |              | <0,01 | -16.771 AM down vs PM  |
| 15132014 | ---   |                                 |              | <0,01 | -16.9077 AM down vs PM |
| 14987063 | ---   |                                 |              | <0,01 | -17.0099 AM down vs PM |
| 15132754 | ---   |                                 |              | <0,01 | -17.0311 AM down vs PM |
| 15136740 | ---   |                                 |              | <0,01 | -17.0521 AM down vs PM |
| 15133394 | ---   |                                 |              | <0,01 | -17.0556 AM down vs PM |
| 14972192 | ---   |                                 |              | <0,01 | -17.1074 AM down vs PM |
| 15131131 | ---   |                                 |              | <0,01 | -17.1132 AM down vs PM |
| 15137618 | ---   |                                 |              | <0,01 | -17.16 AM down vs PM   |
| 14957006 | ---   |                                 |              | <0,01 | -17.1707 AM down vs PM |
| 15063592 | ---   |                                 |              | <0,01 | -17.1957 AM down vs PM |
| 15020762 | ---   |                                 |              | <0,01 | -17.2581 AM down vs PM |
| 14970532 | ---   |                                 |              | <0,01 | -17.2951 AM down vs PM |
| 15136360 | ---   |                                 |              | <0,01 | -17.3386 AM down vs PM |
| 15137394 | ---   |                                 |              | <0,01 | -17.4174 AM down vs PM |
| 15136446 | ---   |                                 |              | <0,01 | -17.4933 AM down vs PM |
| 15136374 | ---   |                                 |              | <0,01 | -17.5034 AM down vs PM |
| 15136754 | ---   |                                 |              | <0,01 | -17.5074 AM down vs PM |
| 15127535 | ---   |                                 |              | <0,01 | -17.5681 AM down vs PM |
| 15082473 | ---   |                                 |              | <0,01 | -17.6968 AM down vs PM |
| 15128311 | ---   |                                 |              | <0,01 | -17.7146 AM down vs PM |
| 15117833 | ---   |                                 |              | <0,01 | -17.727 AM down vs PM  |
| 15018759 | ---   |                                 |              | <0,01 | -17.8395 AM down vs PM |
| 14956620 | ---   |                                 |              | <0,01 | -17.8451 AM down vs PM |
| 14972820 | XM_001497247 // LOC100067132 // olfactory receptor 476-like // --- // 100067132 /// ENS | olfactory receptor 476-like     | LOC100067132 | <0,01 | -17.8474 AM down vs PM |
| 15032277 | ---   |                                 |              | <0,01 | -17.8782 AM down vs PM |
| 14925807 | ---   |                                 |              | <0,01 | -17.9532 AM down vs PM |
| 14925837 | ---   |                                 |              | <0,01 | -17.9532 AM down vs PM |
| 14925879 | ---   |                                 |              | <0,01 | -17.9532 AM down vs PM |
| 14925951 | ---   |                                 |              | <0,01 | -17.9532 AM down vs PM |
| 14978864 | ---   |                                 |              | <0,01 | -18.0059 AM down vs PM |
| 15137146 | ---   |                                 |              | <0,01 | -18.007 AM down vs PM  |
| 15082809 | ---   |                                 |              | <0,01 | -18.1827 AM down vs PM |
| 15132482 | ---   |                                 |              | <0,01 | -18.2294 AM down vs PM |
| 15020350 | ---   |                                 |              | <0,01 | -18.2685 AM down vs PM |
| 15117290 | ---   |                                 |              | <0,01 | -18.4039 AM down vs PM |
| 15136286 | ---   |                                 |              | <0,01 | -18.4182 AM down vs PM |
| 15129022 | ---   |                                 |              | <0,01 | -18.5343 AM down vs PM |
| 14947605 | ---   |                                 |              | <0,01 | -18.5416 AM down vs PM |
| 15136472 | ---   |                                 |              | <0,01 | -18.5454 AM down vs PM |
| 14995193 | ---   |                                 |              | <0,01 | -18.5635 AM down vs PM |
| 15078277 | ---   |                                 |              | <0,01 | -18.5838 AM down vs PM |
| 15029101 | ---   |                                 |              | <0,01 | -18.6205 AM down vs PM |
| 14936458 | ---   |                                 |              | <0,01 | -18.6637 AM down vs PM |
| 15045035 | ---   |                                 |              | <0,01 | -18.677 AM down vs PM  |
| 15124574 | ---   |                                 |              | <0,01 | -18.7169 AM down vs PM |
| 14986730 | ---   |                                 |              | <0,01 | -18.8457 AM down vs PM |
| 15042777 | ---   |                                 |              | <0,01 | -18.9303 AM down vs PM |
| 15130707 | ---   |                                 |              | <0,01 | -19.2377 AM down vs PM |
| 15136302 | ---   |                                 |              | <0,01 | -19.2564 AM down vs PM |

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|---|-----------------------------------|-------|-------|------------------------|
| 15067799 ---  |                                   |       | <0,01 | -19.4071 AM down vs PM |
| 15136210 ---  |                                   |       | <0,01 | -19.4734 AM down vs PM |
| 15051455 ---  |                                   |       | <0,01 | -19.4757 AM down vs PM |
| 14943132 ---  |                                   |       | <0,01 | -19.567 AM down vs PM  |
| 15053642 ---  |                                   |       | <0,01 | -19.9222 AM down vs PM |
| 15130705 ---  |                                   |       | <0,01 | -19.9706 AM down vs PM |
| 14992455 ---  |                                   |       | <0,01 | -19.9856 AM down vs PM |
| 15136206 ---  |                                   |       | <0,01 | -19.9856 AM down vs PM |
| 15088797 ---  |                                   |       | <0,01 | -20.068 AM down vs PM  |
| 15137694 ---  |                                   |       | <0,01 | -20.078 AM down vs PM  |
| 14945595 ---  |                                   |       | <0,01 | -20.1176 AM down vs PM |
| 15081326 ---  |                                   |       | <0,01 | -20.253 AM down vs PM  |
| 15070665 ---  |                                   |       | <0,01 | -20.3069 AM down vs PM |
| 15077744 ---  |                                   |       | <0,01 | -20.5505 AM down vs PM |
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